

MILL-MAX, MAXIMUM INTERCONNECT SOLUTIONS

From order entry to shipping product, Mill-Max is focused on the total satisfaction of our customers. It's this commitment to excellence that truly makes Mill-Max your source for Maximum Interconnect Solutions.

- ◆ Largest inventory of machined interconnect components in North America
- ◆ Unique capabilities to provide emergency product assistance
- ◆ Flexible enough to respond to individual needs
- ◆ Expert custom design support
- ◆ Samples shipped within 24 hours
- ◆ 1 hour order confirmation

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also your source for
Precicontact®
interconnect components

(see pages 117-121 for
cross-reference list)

NOTE

- All dimensions in this catalog are in inches unless otherwise stated.
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- In the interest of improved design and performance, Mill-Max reserves the right to make changes in its specifications without prior notice.



TABLE OF CONTENTS

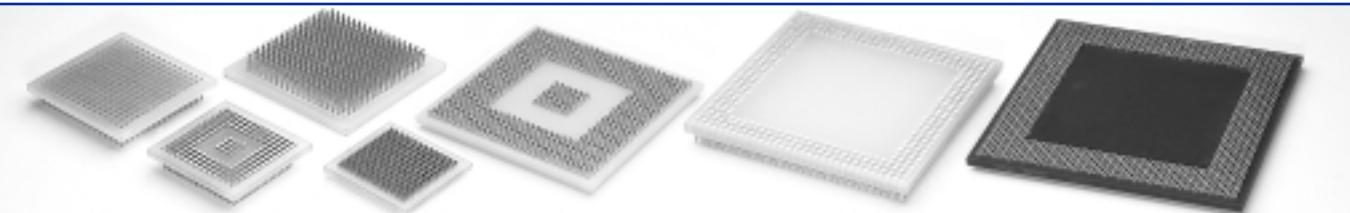
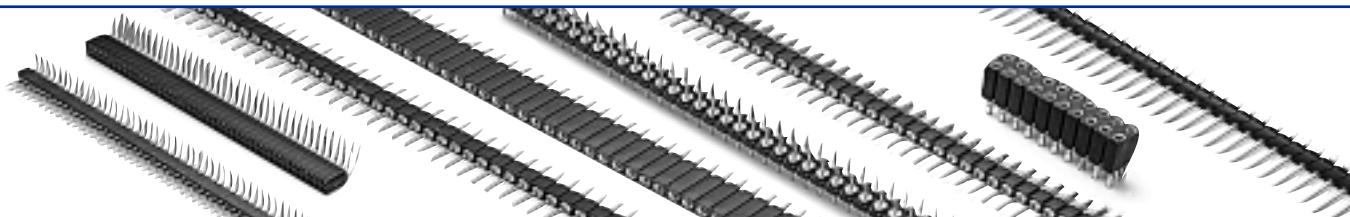
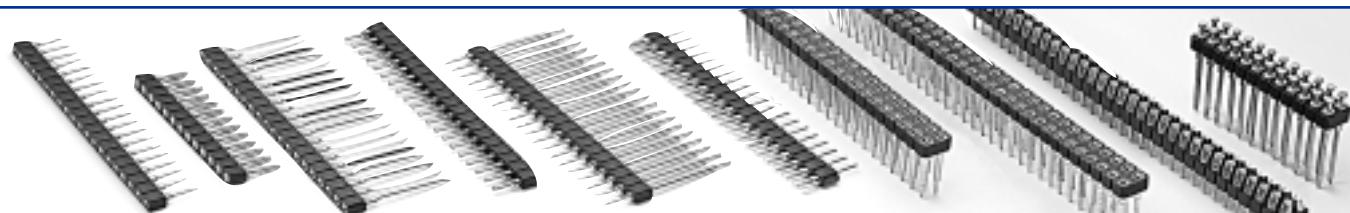




TABLE OF CONTENTS

DIP Sockets, Carriers & Headers

Quick Selector Guide.....	page 10
Standard, Open & Closed Frame, Low Profile, Solderless, Capacitor, Wrapost.....	pages 11 - 22
Military, Surface Mount, Wrapost, Elevated, Right Angle, Carriers.....	pages 23 - 36
Headers (Slotted, Turret, Solder Cup, Interconnects) with Solder tails & Wrapost..	pages 37 - 44

SIP Sockets, Carriers & Headers

Quick Selector Guide.....	page 45
Standard, Low Profile, Elevated, Solderless, Wrapost, Wrapost with Solder Tail....	pages 46 - 55
Carriers (Solder tail, Low Profile, Ultra Low Profile).....	pages 56 - 58
Headers (Interconnects, Slotted, Turret, Solder Cup) with Solder tails & Wrapost..	pages 59 - 67

Interconnects

Quick Selector Guide.....	page 68
1mm, .050", 2mm, & .100" grids (single & double row).....	pages 69 - 82
Solderless Press-fit.....	pages 83 - 84
.025" Square Pins (.100" grid).....	page 85

Specialty Products

10 pin Vertical Mount, Relay, Zig-Zag, & Shrink DIP (.070" grid) Sockets.....	pages 86 - 87
Transistor, 20 pin Vertical Mount, & Right Angle Test Points.....	pages 88 - 89
USB (Universal Serial Bus).....	page 90
Jumpers & Shunts.....	page 91

PLCC / PGA Sockets

PLCC.....	pages 92 - 96
PGA Std, Low Profile, Wrapost, Carriers, Headers & Surface Mount (.100" grid).	pages 97 - 102
PGA Std, Headers, Surface Mount (Interstitial grid).....	pages 103 - 106
Footprints.....	pages 107 - 111

BGA Sockets

BGA Male Adapter & Female Socket (.050" grid).....	page 112
Footprints.....	pages 113 - 115

Receptacles

Pin Selector Guide.....	page 122
Pin Specifications.....	pages 123 - 124
Pin Receptacles.....	pages 125 - 161
Wrapost Receptacles.....	pages 162 - 165

Printed Circuit Pins

Printed Circuit Pins.....	pages 166 - 181
Wrapost Terminals.....	pages 182 - 185
Solder Terminals (Turrets, Slotted).....	pages 186 - 202
Contact Specifications.....	pages 203 - 216



GENERAL TECHNICAL SPECIFICATIONS

INSULATOR BODY:

Standard material is glass filled thermoplastic polyester (PBT), self-extinguishing, rated UL94V-0.
Heat deflection temperature (HDT @ 264 psi)= 204° C (400° F)
Color black. Resistant to detergents, mineral acids, solvents, greases and oils (short time).

Surface mount and pin grid array socket insulators are molded from high temperature PCT polyester.
HDT @ 264 psi= 254° C (490° F). This material is suitable for all forms of soldering including infra-red reflow and vapor-phase.

Products using standard open frame DIP insulators may also be ordered with high temperature PCT polyester, see ordering information on page 7.

FR-4 Epoxy is a thermoset material used in custom insulators and in high temperature applications. It is especially useful because of its low Temperature Coefficient of Expansion (TCE). See chart below.

TCE for molded insulator	30 ppm/ [°] C
TCE for 4-Layer PCB	13 ppm/ [°] C
TCE for unclad epoxy	12 ppm/ [°] C

ENVIRONMENTAL DATA:

- Operating temperature range:	-55/+125 °C
- Vibration (No electrical discontinuity greater than 1μs):	10-2000 HZ, 15 G
- Shock (No electrical discontinuity greater than 1μs):	50 G
- Solderability:	364-52
- Resistance to soldering heat:	364-56A Test Cond. C
- Resistance to atmospheric corrosion:	364-22A/31A
- Climactic category (IEC):	365-17A
- Nitric Acid Vapor Test:	365-17A

RECEPTACLE (SLEEVE):

Precision-machined brass (QQ-B-626) plated 10μ" gold or 200μ" tin-lead (SnPb 90/10) over 80-120μ" nickel.

PIN:

Precision-machined brass (QQ-B-626) plated 10μ" gold or 200μ" tin-lead (SnPb 90/10) over 80-120μ" nickel.

CONTACT (CLIP):

Stamped beryllium-copper (QQ-C-533) heat treated, plated gold flash, 10μ" or 30μ" gold, or 200μ" tin-lead (SnPb 90/10) over 80-120μ" nickel.

(Refer to pages 205-215 for complete contact force data).

ELECTRICAL DATA:

SERIES: 100-700 800 830 850

- Rated current (Amps):	1	3	3	1
- Rated voltage:	100 VRMS/150 VDC			
- Contact resistance:	10 mΩ max.			
- Insulation resistance:	10,000 MΩ min.			
- Dielectric strength:	1000 VRMS min. (700 VRMS min. for series 117 Shrink DIP)			
- Air and creepage distance (inch.):	.028 .033/.028 .020 .016/.020 (.012 for series 117 Shrink DIP)			
- Capacitance(pF max):	.8	1	1	1

Mechanical life: 100 cycles min

Molded insulators for Mill-Max series 110, 500 and 800 are recognized under the Component Program of Underwriters Laboratories Inc. File E135165. ® 

SPECIFICATIONS FOR BGA ADAPTER SYSTEMS:

Materials:

- Socket contact: Three finger, stamped beryllium-copper alloy 172, HT (Mill-Max type #05, page 207); plated 10μ" gold over 50μ" nickel
- Socket shell and adapter pin: Precision machined brass alloy 360, 1/2H; plated 10μ" gold over 100μ" nickel
- Insulator material: .062" thick glass-epoxy type FR-4, rated UL94V-0. TCE = 10-13ppm/[°]C, $\epsilon_r = 5.0$

Mechanical:

- Insertion and withdrawal forces (using .018" dia. polished steel gage pin): Insertion: .2N max., .15N typ.
Withdrawal: .05N min., .07N typ.
- Durability: 100 cycles
- Coplanarity: <.005"

Electrical:

- Current rating (per pin): 1 A
- Working voltage: 100 V_{RMS}/150 V_{DC} max.
- Low level contact resistance: 10 mΩ max.
- Insulation resistance @ 500 V_{RMS}:
Initial value: 1,000,000 MΩ min.
After climatic tests: 10,000 MΩ min.

- Dielectric withstanding voltage: 500 V_{RMS}

- Capacitance between adjacent contacts: 1 pF max.
- Self inductance per pin: 2 nH max.
- Electrical length: 31 ps

Environmental:

- Operating temperature range: -55 °C to +125 °C
BGA adapter/socket systems have withstood the following environmental tests without mechanical or electrical failure:

- Damp heat, steady state: 40 °C, 93% rH, 21 days
- Damp heat, cyclic: 25/55 °C, 6 days
- Dry heat: 100°C, 1,000 hours
- Thermal shock: -55/125 °C, 5 cycles
- Random vibration: 50 to 500 Hz, 8G, 20 min. per axis
- Shock: 50 G per axis
- Solderability: 235 °C, 2 s
- Resistance to soldering heat: 270 °C, 10 s
- Resistance to corrosion:

Salt spray: 48 h

Sulphur dioxide: 96 h at 25 ppm SO₂, 25°C, 75% rH

Hydrogen sulphide: 96 h at 12 ppm H₂S, 25°C, 75% rH



GLOSSARY OF TERMS AND DEFINITIONS

Annealing - Refers to a brass pin that has been softened by heat treatment which makes the pin easier to crimp, rivet (swage) or bend.

Basket Plating - An electroplating system where the parts are processed in a vibrating basket which ensures uniform plating thickness and avoids damage to delicate parts.

Beryllium Copper Alloy 172 - (Per ASTM B194-92)

Chemical Composition: 98.1 % Cu / 1.9% Be.

Beryllium Copper Alloy 172 is well suited to stamping and forming. Unlike other materials, which sacrifice formability to achieve favorable spring characteristics, beryllium copper is easily stamped and formed. Once formed into the desired contact shape, the part is then heat treated to obtain full spring properties.

Brass Alloy 360 1/2 Hard - (Per ASTM B16-85) Chemical Composition: 61.5% Cu / 35.4% Zn / 3.1% Pb. Classified as a free cutting material (excellent machinability) making it ideal for high speed turning. Other properties include excellent conductivity and solderability as well as good corrosion resistance. Brass is generally used in making receptacle shells and pins. It can be annealed (softened), but not hardened.

Carrier - An assembly consisting of an insulator with male pins onto which receptacles are loaded. This assembly is employed as a fixture during the soldering operation and is then removed leaving a P.C. board populated with individual receptacles. Female carriers that load male pins are also available for special applications.

Clip - See contact.

Closed Entry - Refers to female contacts where the front rim prevents the insertion of an oversize pin that would otherwise damage the contact.

Compliance - Contact's ability to accept multiple insertions and extractions of a wide range of pin shapes and sizes while retaining its original configuration.

Compliant Press Fit - Method of mounting an interconnect component to a P.C. board where a drilled and slotted receptacle or pin is pressed into a plated-thru-hole without damaging the hole.

Constant Usage Temperature (CUT) - Constant Usage Temperature is a measure of the maximum temperature that a material may be exposed to for long periods of time, 1000 - 1500 hrs., before degradation of its' electrical and mechanical properties occurs.

Contact - Multi-finger spring insert of a receptacle which completes the electrical path between a male pin and a female receptacle. Also referred to as a clip.

Contact Rating - Current carrying capability of a contact measured in amperes with respect to temperature rise above ambient.

Contact Resistance - The electrical resistance at the point of connection determined by the contact geometry, area of contact, plating and normal force.

Electroplating - The electrodeposition of a metal coating on a conductive object.

End Stackable - The ability for connectors to be mounted end to end while maintaining grid or spacing.

FR-4 Epoxy - Woven glass cloth epoxy laminate. HDT - 177°C / 350°F, CUT - 140°C / 284°F. Classified as a thermoset, the woven fibers of these materials enable them to withstand high temperatures without being damaged. Cut from large sheets of material, the insulator is then machined on a high speed drill/router, the same way as printed circuit boards are fabricated. Applications: Mill-Max uses FR-4 epoxy to quickly manufacture custom connectors. Configurations include standard and non-standard connector spacings (pin to pin and row to row), selected high density PGAs, low profile and surface mount sockets and headers, surface mount adapters and custom shaped connector bodies. Also used where thermal expansion of PCB is critical. See page 4 under "Insulator Body". FR-4 Epoxy is suitable for hand, wave, vapor phase and infra-red reflow soldering.

Flash Plating - A very thin plating, usually less than 10 micro inches, only enough metal to uniformly cover the surface of the base metal.

Floating Contact - In surface mount sockets, a receptacle designed to move up and down freely in an insulator to compensate for unevenly dispensed solder paste.

Free Machining Alloy - An alloy which is easy to machine, e.g. brass alloy 360.

Fretting - A form of corrosion caused by vibration.

Gas Tight Connection - An electrical connection of sufficient pressure to prevent the intrusion of a corrosive atmosphere into the contact area.

Heat Deflection Temperature (HDT) - An industry recognized test for comparing the short term effects of high temperature on plastics.

Heat Treating - The process of using specific heating and cooling cycles to alter the mechanical properties of an alloy. Generally, heat treating can harden or soften a metal depending on the material, the parameters used and the desired physical property.

Hex Press Fit - A method of press fitting either a pin or receptacle, using a hexagonal cross section, into a plated-thru-hole without causing damage to the hole and still maintaining a gas tight seal.

High Speed Turning - See "Precision Machined".

Injection Molding - A method of molding plastics by first heating granular plastic to its molten state and injecting it into the mold cavity where the plastic solidifies and is then ejected from the cavity.

Insertion Force - The force required to insert a male lead into a female socket.



GLOSSARY OF TERMS AND DEFINITIONS

Knurl - A vertical serration machined around the diameter of an interconnect pin providing a retention feature for press-fitting in a P.C. board or insulator and also prevents rotation of the pin.

LCP (Liquid Crystal Polymer) - 30 % glass filled copolymer, rated UL94 V-O. HDT - 243°C / 470°F, CUT - 240°C / 465°F. Classified as a thermoplastic, LCP is a hard, rigid material which exhibits outstanding strength at high temperatures and exceptional strength and toughness in thin walls. Applications: LCP is used as an insulator material for tight grid (.050", 2mm) connectors and extremely high temperature requirements.

Machined - See "Precision Machined".

Migration - For a brass part plated with tin or gold, the migration of zinc from brass to the surface of the plating. This becomes zinc oxide and renders the part unsolderable. Zinc migration is prevented by using a copper or nickel underplate as a barrier.

Nylon 46 - 45 % glass filled nylon, rated UL94 V-O. HDT - 285°C / 545°F, CUT - 149°C / 300°F. Nylons, or polyamides, are classified as thermoplastics. Nylon 46 offers superior heat resistance, good electrical properties and excellent toughness in thin walls, which are desirable characteristics for connector insulators. Its' superior strength in thin walls enables the press fitting of pins in close proximity to each other without cracking or warping the material, making it ideal for molding 2mm and .050" grid insulators. Nylon 46 is suitable for high temperature applications including vapor phase, infra-red reflow and wave soldering operations.

PBT (Polybutylene Terephthalate) - 30 % glass filled polyester, rated UL94 V-O. HDT- 204°C / 400°F, CUT - 130°C / 266°F. PBT is a thermoplastic polyester with high dielectric strength, low moisture absorption, good chemical resistance and available in flame retardant grades. These properties make PBT well suited for use as an insulator material for electronic connectors. Applications include open and closed frame DIPs, single and dual row SIPs, quad, zig-zag, transistor, shrink DIP and others. PBT can withstand most wave soldering operation temperatures.

PCB - Printed Circuit Board.

PCT (Polycyclohexane Terephthalate) - 30 % glass filled polyester, rated UL94 V-O. HDT - 243°C/470°F, CUT - 130°C/266°F. PCT, a thermoplastic polyester, exhibits the same characteristics as PBT and is rated for higher temperatures. PCT is available as an option on DIP and SIP insulators for higher temperature operations. All PGA and surface mount products are molded from PCT and are suitable for infra-red, vapor phase and wave soldering.

Phosphor Bronze Alloy 544 - (Per ASTM B139-90)

Chemical Composition: 88% Cu / 4% Sn / 4% Zn / 4% Pb. Phosphor Bronze 544 is classified as a free cutting material

which lends itself well to high speed turning. Phosphor bronze is used for selected terminals and receptacle shells where extra strength is needed. Along with excellent solderability, phosphor bronze is readily platable.

Other characteristics include good conductivity and almost no corrosion related to stress. It cannot be hardened.

Plating - A process in which metals (e.g. gold, tin-lead, nickel, silver) are electrically deposited onto a base metal in very thin and precise thicknesses.

Plated Thru Hole - A hole in a printed circuit board which has metallic walls connected to conductors on the surface or inside the board, and to which the component lead is inserted and soldered.

Precision Machined - Manufacturing process whereby a rapidly turning solid metal rod is cut to precise tolerances.

Receptacle - Female contact consisting of an outer shell and inner spring contact (clip) designed for multiple mating/unmating cycles with a male pin or component lead.

Screw Machined - See "Precision Machined".

Secondary Machining - A process in which holes, slots, flats, squares or other special features may be machined onto a pin or receptacle after the basic shape of the part has been turned on a high speed lathe.

Shrink DIP Package - An IC which has a pin spacing of .070" on centers.

Standoff - A protrusion at the bottom of the connector used to raise it off the P.C. board to aid in solder fillet formation, board inspection, flux removal and cleaning.

Swage Mount - A type of mounting commonly used with solder terminals and printed circuit pins where one end of the terminal is flared out (riveted) securing it to the PCB.

Thermal Coefficient of Expansion(TCE) - Expansion of material caused by an increase in temperature.

Thermoset - Type of plastic which is heat cured into a permanent shape, and due to chemical reaction, cannot be remelted.

Thermoplastics - Type of plastic which is molded under heat and pressure and can be remelted and reused many times.

Top Plate - Final surface plating over base metal and underplating.

Underplate - Plating between the base metal and the top plating.

Withdrawal Force - The force required to remove a lead from a contact.

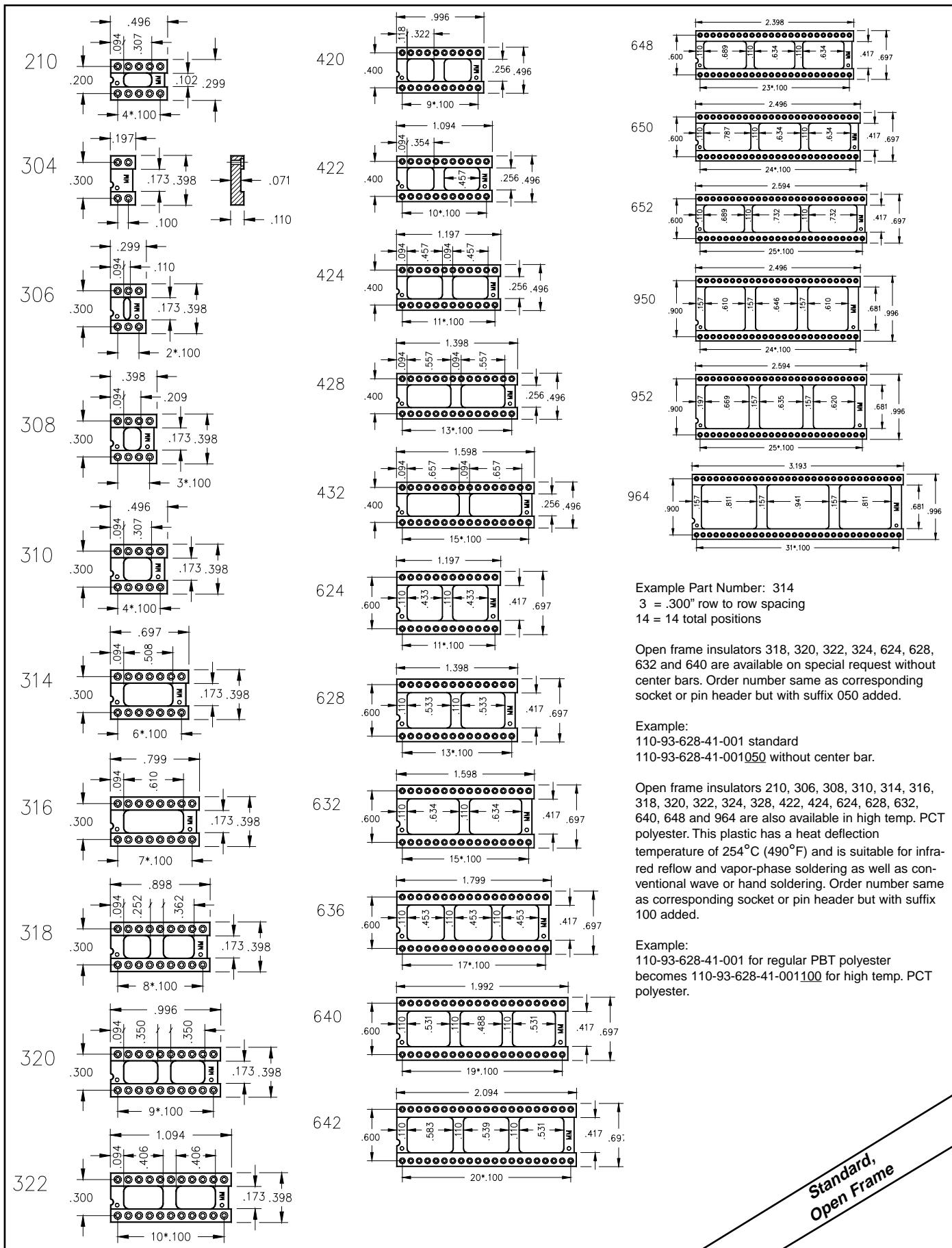
Wrapost (Terminal or Receptacle) - The length of square cross section of certain pins and receptacles which is used for making electrical connections via wire wrapping.

Wire wrapping is a process in which wire is wrapped around the post to form a gas-tight connection without soldering.



DUAL-IN-LINE INSULATORS

Standard Open Frame



Example Part Number: 314

3 = .300" row to row spacing

14 = 14 total positions

Open frame insulators 318, 320, 322, 324, 624, 628, 632 and 640 are available on special request without center bars. Order number same as corresponding socket or pin header but with suffix 050 added.

Example:

110-93-628-41-001 standard

110-93-628-41-001050 without center bar.

Open frame insulators 210, 306, 308, 310, 314, 316, 318, 320, 322, 324, 328, 422, 424, 624, 628, 632, 640, 648 and 964 are also available in high temp. PCT polyester. This plastic has a heat deflection temperature of 254°C (490°F) and is suitable for infrared reflow and vapor-phase soldering as well as conventional wave or hand soldering. Order number same as corresponding socket or pin header but with suffix 100 added.

Example:

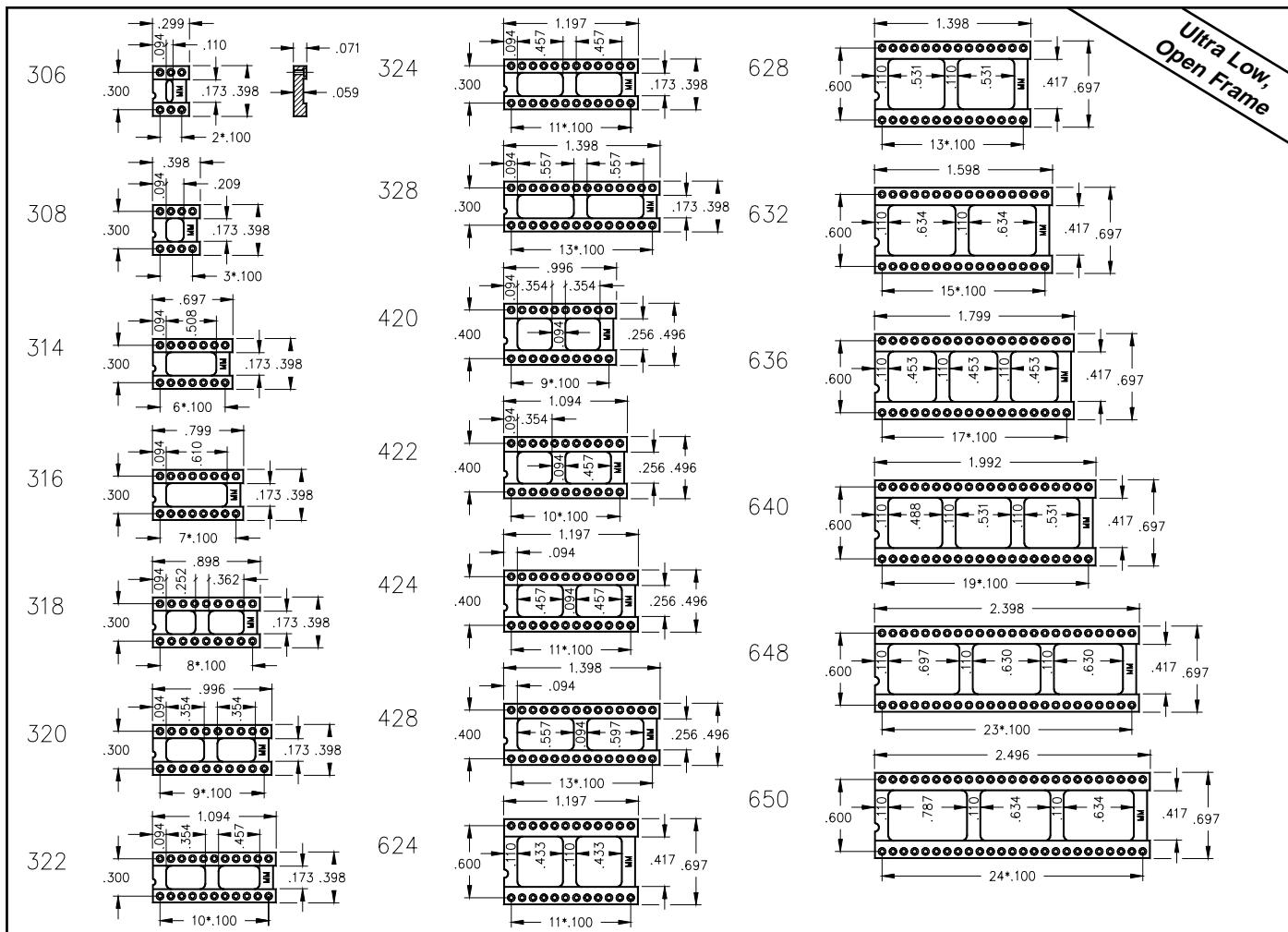
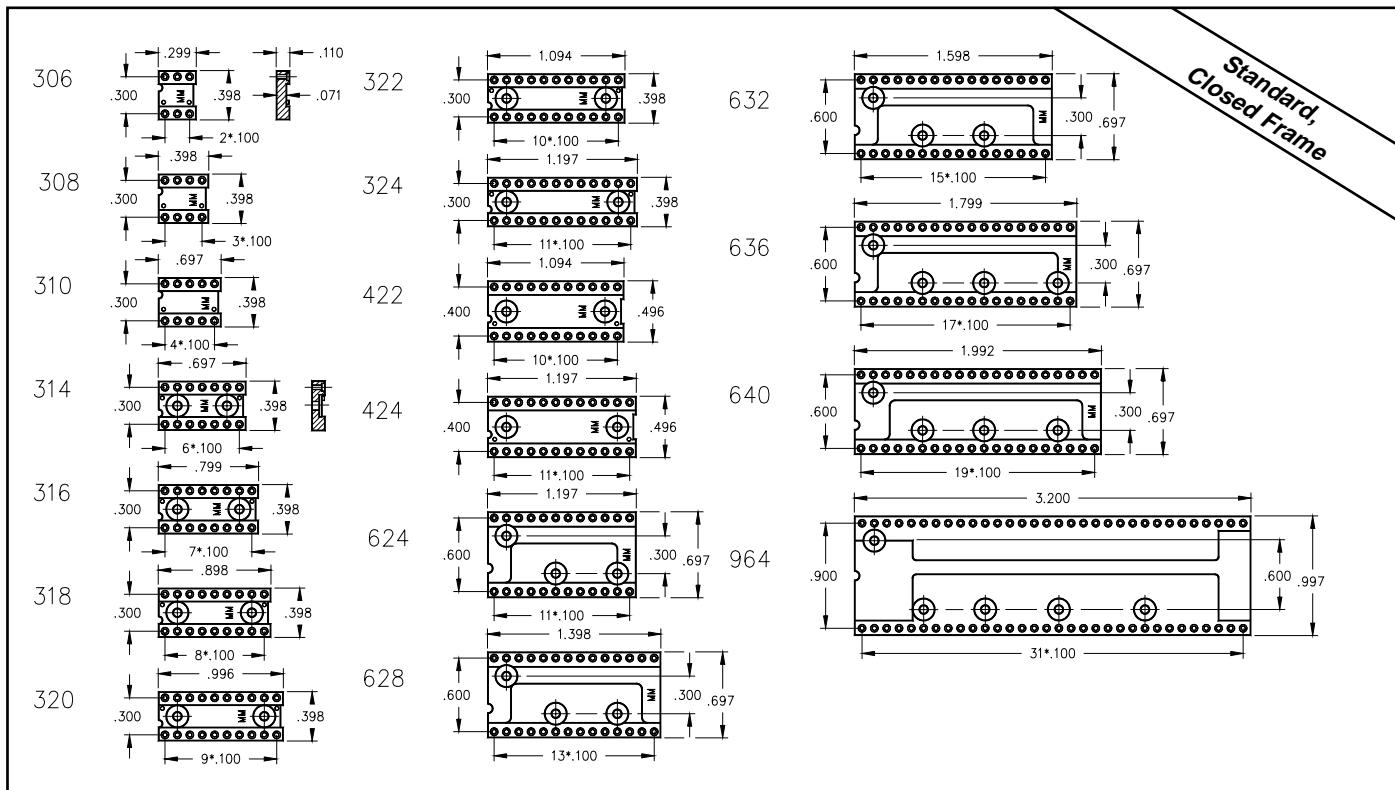
110-93-628-41-001 for regular PBT polyester

becomes 110-93-628-41-001100 for high temp. PCT polyester.



DUAL-IN-LINE INSULATORS

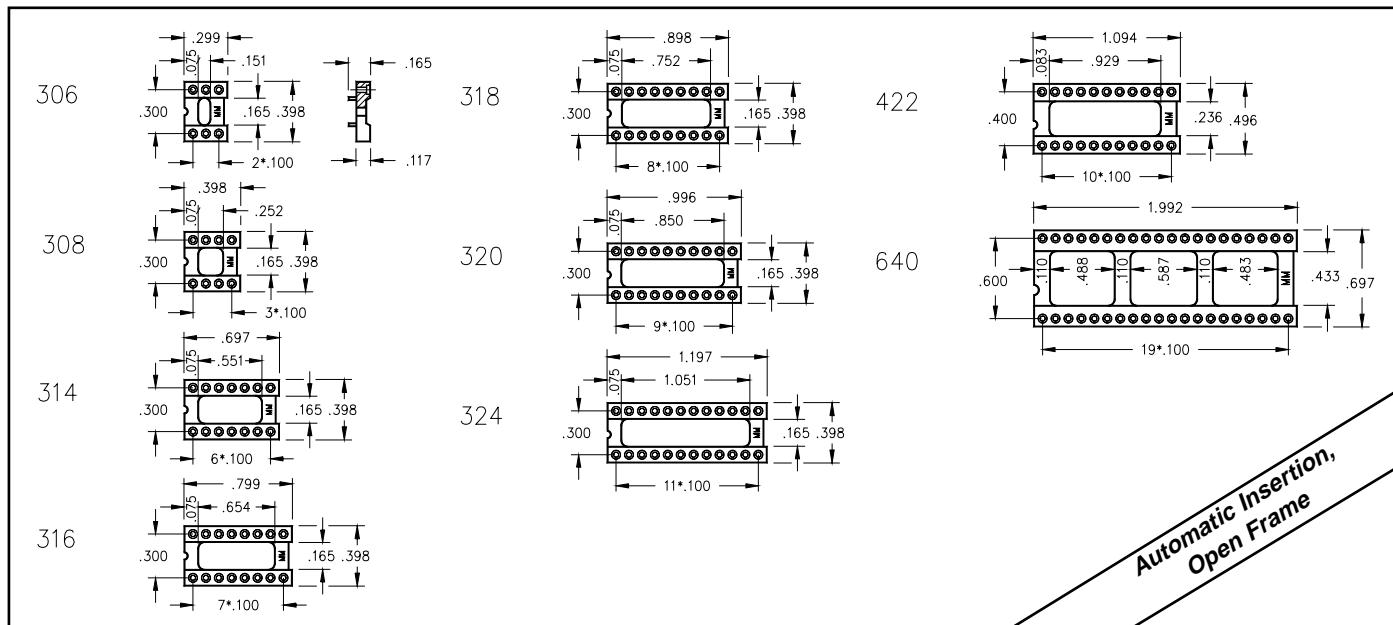
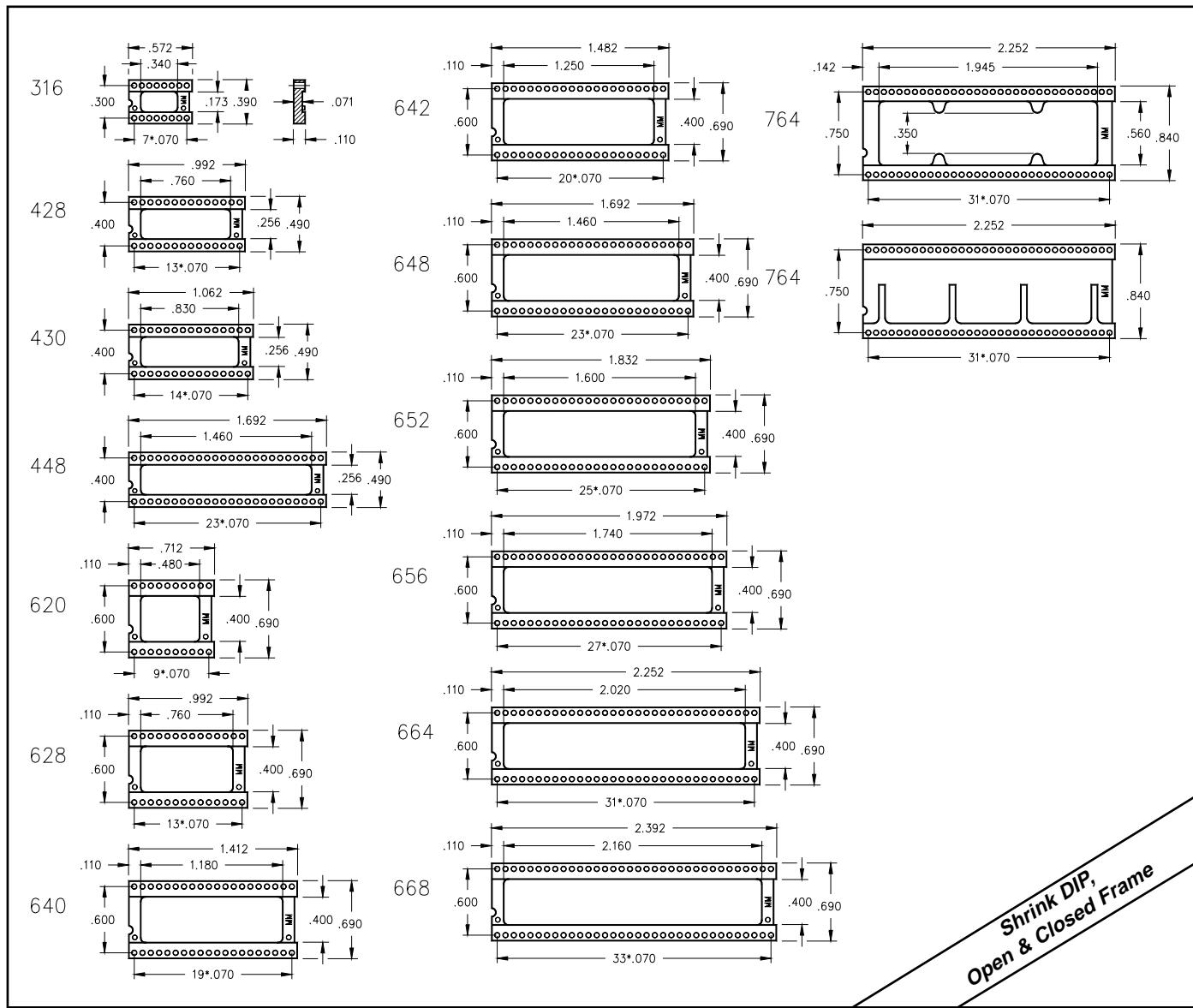
Standard, Closed Frame
Ultra Low Profile, Open Frame





DUAL-IN-LINE INSULATORS

Shrink DIP, Open and Closed Frame
Automatic Insertion, Open Frame





DIP SOCKETS, CARRIERS AND HEADERS QUICK SELECTOR CHART

USE THIS CONVENIENT CHART TO SELECT THE RIGHT DIP SOCKET FOR YOUR APPLICATION.

- 1) Determine the style of pin needed to meet your requirement.
 - 2) Select the appropriate insulator frame.
 - 3) Turn to indicated page for detail and ordering information.
 - 4) * denotes pins that Mill-Max will custom assemble in a selected insulator.
- Contact our applications engineers for further information.

DUAL-IN-LINE SOCKETS AND CARRIERS

		Surface Mount												Socket Carriers								
		Standard Solder Tail	Low Cost (Stamped)	Clinch Pin	Long Solder Tail	Very Low Profile	Ultra Low Profile	Auto-Insertion	Solderless Press-Fit	Gull-Wing	Stub Tail	1-4 Level Wrapost	Pluggable Wrapost	Elevated	Right Angle	Solder Tail	Low Profile	Ultra Low Profile				
SELECT PIN																						
SELECT INSULATOR					OPEN FRAME DIP	11 12	13	18	14	15	16	17	19 20	25	26	28	29	30	32 36	33 34 36	35 36	36
TURN TO PAGE #																						
					CAPACITOR DIP	21																
					CLOSED FRAME DIP	22 23			*	*			*	*	27	22 24	*	*	31	*	*	*
For Shrink DIP Sockets (on .070" grid), see page 87.																						
For Technical Specifications, see page 4.																						

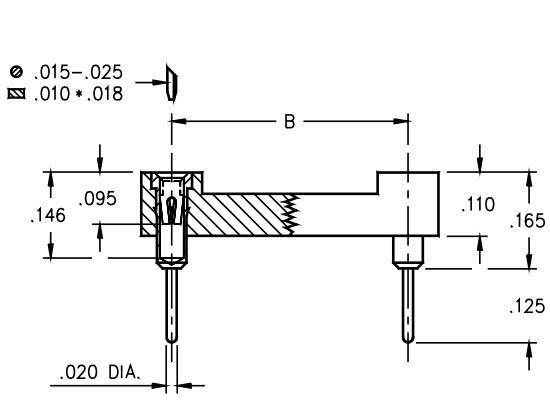
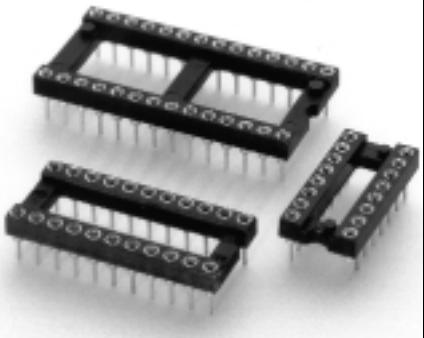
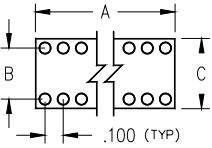
DUAL-IN-LINE HEADERS

		.018 Dia. Solder Tail & Wrapost					Slotted Head Solder Tail & Wrapost		Turret Head Solder Tail & Wrapost		Solder Cup Solder Tail & Wrapost		Elevated Pin to Pin	
		SELECT PIN	OPEN FRAME DIP	37	38	39	40	41 42	43 44	41 42	43 44	41 42	43 44	
SELECT INSULATOR														
TURN TO PAGE #														



DUAL-IN-LINE SOCKETS
Standard Solder Tail
Open Frame

Series 110...001

				<ul style="list-style-type: none"> All DIP sockets accept .015 - .025" dia. and standard IC leads. Lubricated contacts also available. (See page 96 for specs.) Hi-Rel, 4-finger BeCu #30 clip rated at 3 amps. See page 208 for details. Uses Mill-Max #1001 pin. See page 134 for details. 	
				Ordering Information	
Total number of pins	A	B	C	Quantity per tube	
10	0.5	0.2	0.3	40	110-XX-210-41-001
4	0.2	0.3	0.4	102	110-XX-304-41-001
6	0.3	0.3	0.4	67	110-XX-306-41-001
8	0.4	0.3	0.4	50	110-XX-308-41-001
10	0.5	0.3	0.4	40	110-XX-310-41-001
14	0.7	0.3	0.4	28	110-XX-314-41-001
16	0.8	0.3	0.4	25	110-XX-316-41-001
18	0.9	0.3	0.4	22	110-XX-318-41-001
20	1.0	0.3	0.4	20	110-XX-320-41-001
22	1.1	0.3	0.4	18	110-XX-322-41-001
24	1.2	0.3	0.4	16	110-XX-324-41-001
28	1.4	0.3	0.4	14	110-XX-328-41-001
20	1.0	0.4	0.5	20	110-XX-420-41-001
22	1.1	0.4	0.5	18	110-XX-422-41-001
24	1.2	0.4	0.5	16	110-XX-424-41-001
28	1.4	0.4	0.5	14	110-XX-428-41-001
32	1.6	0.4	0.5	12	110-XX-432-41-001
24	1.2	0.6	0.7	16	110-XX-624-41-001
28	1.4	0.6	0.7	14	110-XX-628-41-001
32	1.6	0.6	0.7	12	110-XX-632-41-001
36	1.8	0.6	0.7	11	110-XX-636-41-001
40	2.0	0.6	0.7	10	110-XX-640-41-001
42	2.1	0.6	0.7	9	110-XX-642-41-001
48	2.4	0.6	0.7	8	110-XX-648-41-001
50	2.5	0.6	0.7	8	110-XX-650-41-001
52	2.6	0.6	0.7	7	110-XX-652-41-001
50	2.5	0.9	1.0	8	110-XX-950-41-001
52	2.6	0.9	1.0	7	110-XX-952-41-001
64	3.2	0.9	1.0	6	110-XX-964-41-001
XX= Plating Code See Below				For High Temperature Insulators Add '100' To End Of Part Numbers	
SPECIFY PLATING CODE XX=				13	91
Sleeve (Pin) 				10μ" Au	200μ" Sn/Pb
Contact (Clip) 				30μ" Au	10μ" Au
				30μ" Sn/Pb	200μ" Sn/Pb

Replace '001' suffix with '361' for Lubricated contacts
(To be used with "99" plating code only)



MILITARY DUAL-IN-LINE SOCKETS
MIL-S-83734 APPROVED
Solder Tail, Open Frame

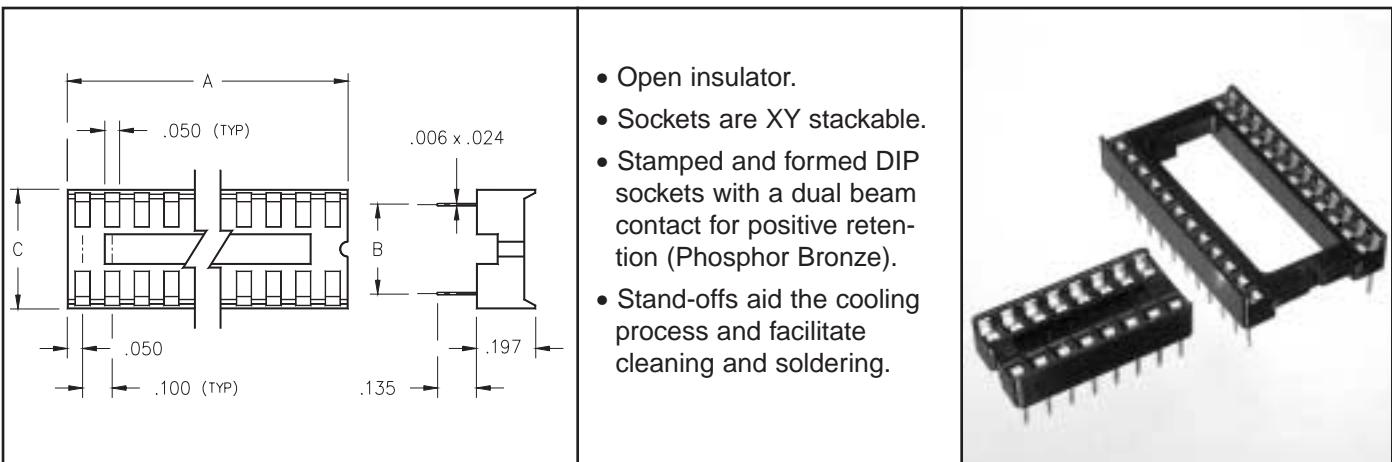
Series 110...530

				<ul style="list-style-type: none"> Sockets are XY stackable. Machined outer sleeve with BeCu inner contact. Socket pins feature closed-entry construction eliminating any solder/flux wicking problems. Packaged in tubes compatible with automatic insertion equipment. Uses Mill-Max #1001 pin. See page 134 for details. 			
Total number of pins				Quantity per tube	Ordering Information		
	A	B	C		Mill-Max Part Number	Military Part Number	
8	0.4	0.3	0.4	50	110-XX-308-41-530	M83734/2-YYY	
14	0.7	0.3	0.4	28	110-XX-314-41-530	M83734/3-YYY	
16	0.8	0.3	0.4	25	110-XX-316-41-530	M83734/4-YYY	
18	0.9	0.3	0.4	22	110-XX-318-41-530	M83734/5-YYY	
20	1.0	0.3	0.4	20	110-XX-320-41-530	M83734/13-YYY	
22	1.1	0.4	0.5	18	110-XX-422-41-530	M83734/6-YYY	
24	1.2	0.6	0.7	16	110-XX-624-41-530	M83734/8-YYY	
28	1.4	0.6	0.7	14	110-XX-628-41-530	M83734/7-YYY	
40	2.0	0.6	0.7	10	110-XX-640-41-530	M83734/10-YYY	
48	2.4	0.6	0.7	8	110-XX-648-41-530	M83734/14-YYY	
64	3.2	0.9	1.0	6	110-XX-964-41-530	M83734/15-YYY	
SEE PAGE 116 FOR COMPLETE QPL							
SPECIFY MILL-MAX PLATING CODE XX=				33	83	88	
FOR MILITARY CODE YYY=				028	029	030	
Sleeve (Pin)				30μ" Au	100μ" Sn/Pb	100μ" Sn/Pb	
Contact (Clip)				30μ" Au	30μ" Au	100μ" Sn/Pb	

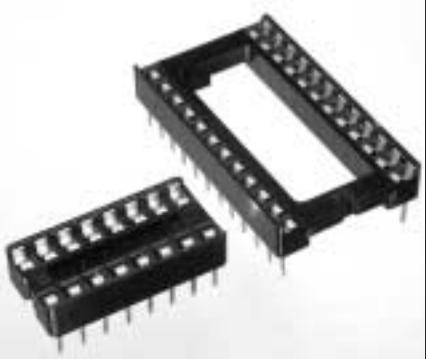


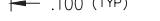
LOW COST (stamped) DUAL-IN-LINE SOCKETS Open Frame

Series 110...000



- Open insulator.
 - Sockets are XY stackable.
 - Stamped and formed DIP sockets with a dual beam contact for positive retention (Phosphor Bronze).
 - Stand-offs aid the cooling process and facilitate cleaning and soldering.



Total number of pins	 A B C .100 (TYP)			Quantity per box	Ordering Information			
	A	B	C					
6	0.3	0.3	0.4	8,000				110-90-306-00-000
8	0.4	0.3	0.4	6,000				110-90-308-00-000
14	0.7	0.3	0.4	3,400				110-90-314-00-000
16	0.8	0.3	0.4	3,000				110-90-316-00-000
18	0.9	0.3	0.4	2,600				110-90-318-00-000
20	1.0	0.3	0.4	2,400				110-90-320-00-000
24	1.2	0.3	0.4	2,000				110-90-324-00-000
28	1.4	0.3	0.4	1,700				110-90-328-00-000
24	1.2	0.6	0.7	2,000				110-90-624-00-000
28	1.4	0.6	0.7	1,700				110-90-628-00-000
32	1.6	0.6	0.7	1,500				110-90-632-00-000
40	2.0	0.6	0.7	1,200				110-90-640-00-000
48	2.4	0.6	0.7	1,000				110-90-648-00-000

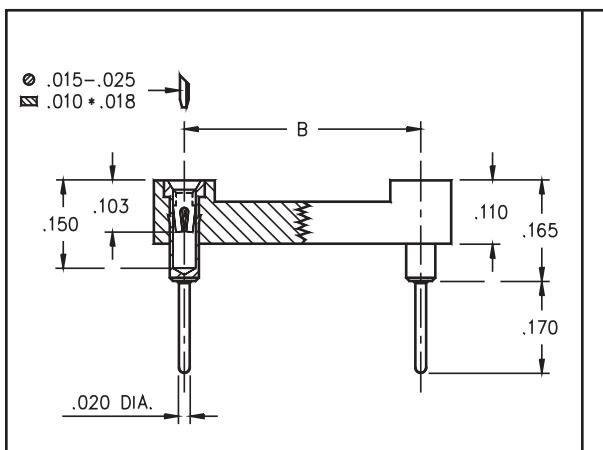
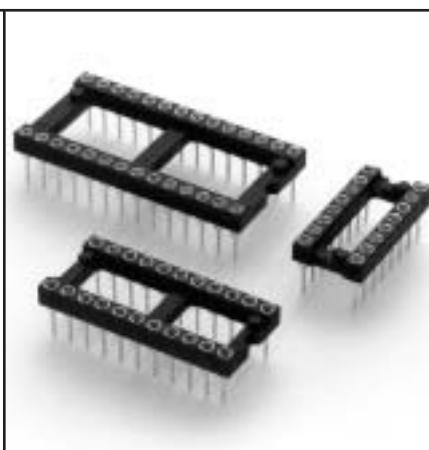
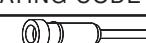
Ordering Information

Pine Hollow Road, Oyster Bay, NY 11771-0300 Tel: 516-922-6000 Fax: 516-922-9253 13



DUAL-IN-LINE SOCKETS
Long Solder Tail for Multilayer PC-Boards
Open Frame

Series 111

				<ul style="list-style-type: none"> DIP sockets with increased solder tail length of .170", allowing application on multilayer PCBs up to .139" thickness. Other lengths available upon request. Hi-Rel, 4-finger BeCu #30 clip rated at 3 amps. See page 208 for details. Uses Mill-Max #0134 pin. See page 134 for details. 		
Total number of pins	A	B	C	Quantity per tube	Ordering Information	
10	0.5	0.2	0.3	40	111-XX-210-41-001	
4	0.2	0.3	0.4	102	111-XX-304-41-001	
6	0.3	0.3	0.4	67	111-XX-306-41-001	
8	0.4	0.3	0.4	50	111-XX-308-41-001	
10	0.5	0.3	0.4	40	111-XX-310-41-001	
14	0.7	0.3	0.4	28	111-XX-314-41-001	
16	0.8	0.3	0.4	25	111-XX-316-41-001	
18	0.9	0.3	0.4	22	111-XX-318-41-001	
20	1.0	0.3	0.4	20	111-XX-320-41-001	
22	1.1	0.3	0.4	18	111-XX-322-41-001	
24	1.2	0.3	0.4	16	111-XX-324-41-001	
28	1.4	0.3	0.4	14	111-XX-328-41-001	
20	1.0	0.4	0.5	20	111-XX-420-41-001	
22	1.1	0.4	0.5	18	111-XX-422-41-001	
24	1.2	0.4	0.5	16	111-XX-424-41-001	
28	1.4	0.4	0.5	14	111-XX-428-41-001	
32	1.6	0.4	0.5	12	111-XX-432-41-001	
24	1.2	0.6	0.7	16	111-XX-624-41-001	
28	1.4	0.6	0.7	14	111-XX-628-41-001	
32	1.6	0.6	0.7	12	111-XX-632-41-001	
36	1.8	0.6	0.7	11	111-XX-636-41-001	
40	2.0	0.6	0.7	10	111-XX-640-41-001	
42	2.1	0.6	0.7	9	111-XX-642-41-001	
48	2.4	0.6	0.7	8	111-XX-648-41-001	
50	2.5	0.6	0.7	8	111-XX-650-41-001	
52	2.6	0.6	0.7	7	111-XX-652-41-001	
50	2.5	0.9	1.0	8	111-XX-950-41-001	
52	2.6	0.9	1.0	7	111-XX-952-41-001	
64	3.2	0.9	1.0	6	111-XX-964-41-001	
SPECIFY PLATING CODE XX=				13	93	99
Sleeve (Pin) 				10μ" Au		200μ" Sn/Pb
Contact (Clip) 				30μ" Au	30μ" Au	200μ" Sn/Pb

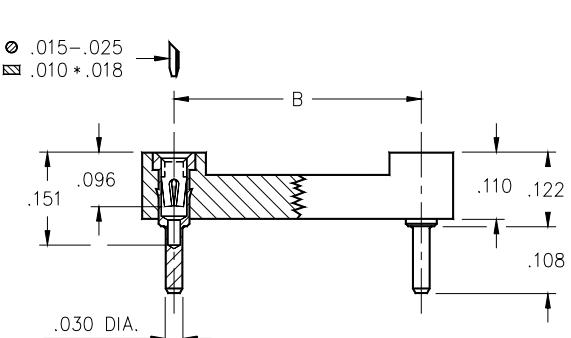
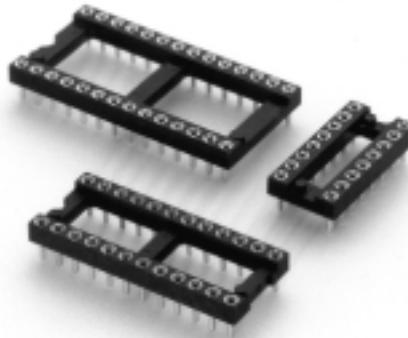
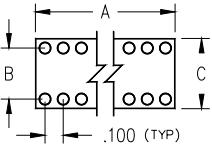
**XX= Plating Code
See Below**

**For High
Temperature
Insulators
Add '100'
To End Of
Part Numbers**



DUAL-IN-LINE SOCKETS
Very Low Profile
Open Frame

Series 115...001

				<ul style="list-style-type: none"> • Low profile socket, sits only .122" above PCB. • Hi-Rel, 4-finger BeCu #30 clip rated at 3 amps. See page 208 for details. • Uses Mill-Max #0501 pin. See page 131 for details. 	
Total number of pins				Quantity per tube	
A	B	C			
10	0.5	0.2	0.3	41	115-XX-210-41-001
4	0.2	0.3	0.4	102	115-XX-304-41-001
6	0.3	0.3	0.4	67	115-XX-306-41-001
8	0.4	0.3	0.4	50	115-XX-308-41-001
10	0.5	0.3	0.4	40	115-XX-310-41-001
14	0.7	0.3	0.4	28	115-XX-314-41-001
16	0.8	0.3	0.4	25	115-XX-316-41-001
18	0.9	0.3	0.4	22	115-XX-318-41-001
20	1.0	0.3	0.4	20	115-XX-320-41-001
22	1.1	0.3	0.4	18	115-XX-322-41-001
24	1.2	0.3	0.4	16	115-XX-324-41-001
28	1.4	0.3	0.4	14	115-XX-328-41-001
20	1.0	0.4	0.5	20	115-XX-420-41-001
22	1.1	0.4	0.5	18	115-XX-422-41-001
24	1.2	0.4	0.5	16	115-XX-424-41-001
28	1.4	0.4	0.5	14	115-XX-428-41-001
32	1.6	0.4	0.5	12	115-XX-432-41-001
24	1.2	0.6	0.7	16	115-XX-624-41-001
28	1.4	0.6	0.7	14	115-XX-628-41-001
32	1.6	0.6	0.7	12	115-XX-632-41-001
36	1.8	0.6	0.7	11	115-XX-636-41-001
40	2.0	0.6	0.7	10	115-XX-640-41-001
42	2.1	0.6	0.7	9	115-XX-642-41-001
48	2.4	0.6	0.7	8	115-XX-648-41-001
50	2.5	0.6	0.7	8	115-XX-650-41-001
52	2.6	0.6	0.7	7	115-XX-652-41-001
50	2.5	0.9	1.0	8	115-XX-950-41-001
52	2.6	0.9	1.0	7	115-XX-952-41-001
64	3.2	0.9	1.0	6	115-XX-964-41-001
SPECIFY PLATING CODE XX=				13	
Sleeve (Pin) 				10 μ " Au	
Contact (Clip) 				200 μ " Sn/Pb	
				30 μ " Au	

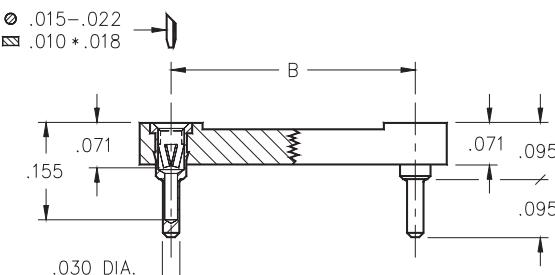
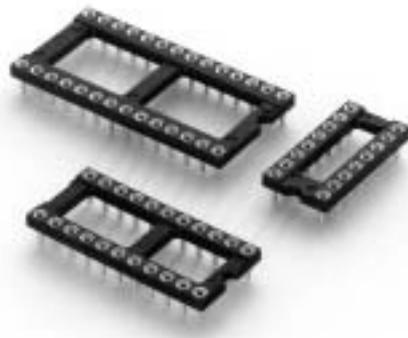
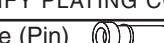
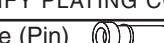
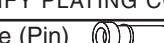
**XX= Plating Code
See Below**

**For High
Temperature
Insulators
Add '100'
To End Of
Part Numbers**



DUAL-IN-LINE SOCKETS
Ultra Low Profile
Open Frame

Series 115...003

 <ul style="list-style-type: none"> Our lowest profile DIP sockets with an above PCB height of .095". Special short, Hi-Rel, 4-finger BeCu #12 clip rated at 3 amps. See page 207 for details. Uses Mill-Max #0703 pin. See page 130 for details. 																																																																																																													
<table border="1"> <thead> <tr> <th>Total number of pins</th><th>A</th><th>B</th><th>C</th><th>Quantity per tube</th></tr> </thead> <tbody> <tr> <td>6</td><td>0.3</td><td>0.3</td><td>0.4</td><td>67</td></tr> <tr> <td>8</td><td>0.4</td><td>0.3</td><td>0.4</td><td>50</td></tr> <tr> <td>14</td><td>0.7</td><td>0.3</td><td>0.4</td><td>28</td></tr> <tr> <td>16</td><td>0.8</td><td>0.3</td><td>0.4</td><td>25</td></tr> <tr> <td>18</td><td>0.9</td><td>0.3</td><td>0.4</td><td>22</td></tr> <tr> <td>20</td><td>1.0</td><td>0.3</td><td>0.4</td><td>20</td></tr> <tr> <td>22</td><td>1.1</td><td>0.3</td><td>0.4</td><td>18</td></tr> <tr> <td>24</td><td>1.2</td><td>0.3</td><td>0.4</td><td>16</td></tr> <tr> <td>28</td><td>1.4</td><td>0.3</td><td>0.4</td><td>14</td></tr> <tr> <td>20</td><td>1.0</td><td>0.4</td><td>0.5</td><td>20</td></tr> <tr> <td>22</td><td>1.1</td><td>0.4</td><td>0.5</td><td>18</td></tr> <tr> <td>24</td><td>1.2</td><td>0.4</td><td>0.5</td><td>16</td></tr> <tr> <td>28</td><td>1.4</td><td>0.4</td><td>0.5</td><td>14</td></tr> <tr> <td>24</td><td>1.2</td><td>0.6</td><td>0.7</td><td>16</td></tr> <tr> <td>28</td><td>1.4</td><td>0.6</td><td>0.7</td><td>14</td></tr> <tr> <td>32</td><td>1.6</td><td>0.6</td><td>0.7</td><td>12</td></tr> <tr> <td>36</td><td>1.8</td><td>0.6</td><td>0.7</td><td>11</td></tr> <tr> <td>40</td><td>2.0</td><td>0.6</td><td>0.7</td><td>10</td></tr> <tr> <td>48</td><td>2.4</td><td>0.6</td><td>0.7</td><td>8</td></tr> <tr> <td>50</td><td>2.5</td><td>0.6</td><td>0.7</td><td>8</td></tr> </tbody> </table>	Total number of pins	A	B	C	Quantity per tube	6	0.3	0.3	0.4	67	8	0.4	0.3	0.4	50	14	0.7	0.3	0.4	28	16	0.8	0.3	0.4	25	18	0.9	0.3	0.4	22	20	1.0	0.3	0.4	20	22	1.1	0.3	0.4	18	24	1.2	0.3	0.4	16	28	1.4	0.3	0.4	14	20	1.0	0.4	0.5	20	22	1.1	0.4	0.5	18	24	1.2	0.4	0.5	16	28	1.4	0.4	0.5	14	24	1.2	0.6	0.7	16	28	1.4	0.6	0.7	14	32	1.6	0.6	0.7	12	36	1.8	0.6	0.7	11	40	2.0	0.6	0.7	10	48	2.4	0.6	0.7	8	50	2.5	0.6	0.7	8	Ordering Information			
Total number of pins	A	B	C	Quantity per tube																																																																																																									
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				115-XX-306-41-003 115-XX-308-41-003 115-XX-314-41-003 115-XX-316-41-003 115-XX-318-41-003 115-XX-320-41-003 115-XX-322-41-003 115-XX-324-41-003 115-XX-328-41-003 115-XX-420-41-003 115-XX-422-41-003 115-XX-424-41-003 115-XX-428-41-003 115-XX-624-41-003 115-XX-628-41-003 115-XX-632-41-003 115-XX-636-41-003 115-XX-640-41-003 115-XX-648-41-003 115-XX-650-41-003																																																																																																									
				For High Temperature Insulators Add '100' To End Of Part Numbers																																																																																																									
				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">SPECIFY PLATING CODE XX=</td><td style="padding: 2px; text-align: center;">13</td><td style="padding: 2px; text-align: center;">91</td><td style="padding: 2px; text-align: center;">93</td><td style="padding: 2px; text-align: center;">99</td></tr> <tr> <td style="padding: 2px;">Sleeve (Pin) </td><td style="padding: 2px; text-align: center;">10μ" Au</td><td style="padding: 2px; text-align: center;">200μ" Sn/Pb</td><td style="padding: 2px; text-align: center;">200μ" Sn/Pb</td><td style="padding: 2px; text-align: center;">200μ" Sn/Pb</td></tr> <tr> <td style="padding: 2px;">Contact (Clip) </td><td style="padding: 2px; text-align: center;">30μ" Au</td><td style="padding: 2px; text-align: center;">10μ" Au</td><td style="padding: 2px; text-align: center;">30μ" Au</td><td style="padding: 2px; text-align: center;">200μ" Sn/Pb</td></tr> </table>	SPECIFY PLATING CODE XX=	13	91	93	99	Sleeve (Pin) 	10μ" Au	200μ" Sn/Pb	200μ" Sn/Pb	200μ" Sn/Pb	Contact (Clip) 	30μ" Au	10μ" Au	30μ" Au	200μ" Sn/Pb																																																																																										
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Contact (Clip) 	30μ" Au	10μ" Au	30μ" Au	200μ" Sn/Pb																																																																																																									

				<ul style="list-style-type: none"> High temperature insulator with standoffs is compatible with standard automatic insertion equipment. Soft copper alloy machined pins allows clinching. Chamfered contact entry allows for ease of IC insertion without bent leads. Uses M-M#1005 pin with #30 clip rated at 3 amps. See page 135 for pin details. 	
Ordering Information					
Total number of pins	A	B	C	Quantity per tube	
6	0.3	0.3	0.4	67	110-93-306-41-605
8	0.4	0.3	0.4	50	110-93-308-41-605
14	0.7	0.3	0.4	28	110-93-314-41-605
16	0.8	0.3	0.4	25	110-93-316-41-605
18	0.9	0.3	0.4	22	110-93-318-41-605
20	1.0	0.3	0.4	20	110-93-320-41-605
24	1.2	0.3	0.4	16	110-93-324-41-605
22	1.1	0.4	0.5	18	110-93-422-41-605
24	1.2	0.6	0.7	16	110-93-624-41-605
28	1.4	0.6	0.7	14	110-93-628-41-605
32	1.6	0.6	0.7	12	110-93-632-41-605
40	2.0	0.6	0.7	10	110-93-640-41-605
<hr/>					
PLATING CODE = 93					
Sleeve (Pin)					
Contact (Clip)					
200 μ " Sn/Pb 30 μ " Au					

			<ul style="list-style-type: none"> Special lock-down feature prevents floating of socket during soldering. Open insulator with ladder construction. Sockets are XY stackable. Socket pins feature closed end construction eliminating any solder wicking problems. 																
Total number of pins				Ordering Information															
Total number of pins	A	B	C	Quantity per tube															
6	0.3	0.3	0.4	67	101-93-306-41-56X														
8	0.4	0.3	0.4	50	101-93-308-41-56X														
14	0.7	0.3	0.4	28	101-93-314-41-56X														
16	0.8	0.3	0.4	25	101-93-316-41-56X														
18	0.9	0.3	0.4	22	101-93-318-41-56X														
20	1.0	0.3	0.4	20	101-93-320-41-56X														
24	1.2	0.3	0.4	16	101-93-324-41-56X														
28	1.4	0.3	0.4	14	101-93-328-41-56X														
22	1.1	0.4	0.5	18	101-93-422-41-56X														
24	1.2	0.6	0.7	16	101-93-624-41-56X														
28	1.4	0.6	0.7	14	101-93-628-41-56X														
32	1.6	0.6	0.7	12	101-93-632-41-56X														
40	2.0	0.6	0.7	10	101-93-640-41-56X														
48	2.4	0.6	0.7	8	101-93-648-41-56X														
64	3.2	0.9	1.0	6	101-93-964-41-56X														
For High Temperature Insulators Add '100' To End Of Part Numbers																			
<u>Clinch Pins:</u> Two Opposite Corner Pins X = 0 Four Corner Pins X = 8																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">SPECIFY PLATING CODE XX=</td><td style="padding: 2px;"></td><td style="padding: 2px;"></td><td style="padding: 2px; text-align: center;">93</td><td style="padding: 2px;"></td></tr> <tr> <td style="padding: 2px;">Sleeve (Pin) </td><td style="padding: 2px;"></td><td style="padding: 2px;"></td><td style="padding: 2px; text-align: center;">200μ" Sn/Pb</td><td style="padding: 2px;"></td></tr> <tr> <td style="padding: 2px;">Contact (Clip) </td><td style="padding: 2px;"></td><td style="padding: 2px;"></td><td style="padding: 2px; text-align: center;">30μ" Au</td><td style="padding: 2px;"></td></tr> </table>					SPECIFY PLATING CODE XX=			93		Sleeve (Pin)			200μ" Sn/Pb		Contact (Clip)			30μ" Au	
SPECIFY PLATING CODE XX=			93																
Sleeve (Pin)			200μ" Sn/Pb																
Contact (Clip)			30μ" Au																

	<ul style="list-style-type: none"> Designed for solderless press-fit into plated-thru holes. Pin lengths are suitable for .062" and .093"-.125" thick panels. Required plated thru-hole is .036"-.041", ie: use a 1.1mm drill prior to plating. Uses M-M# 0477 or 0478 with #30 contact, rated for 3 amps. See page 131 for pin details. 	
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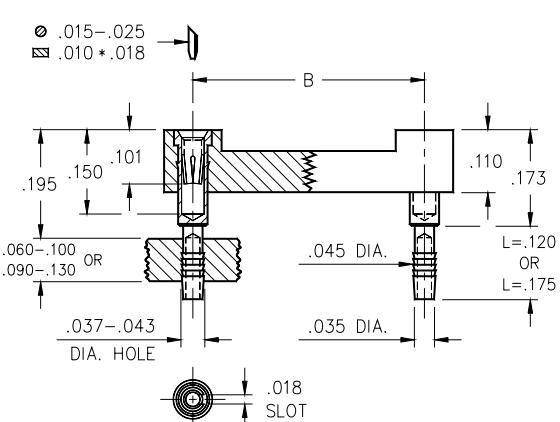
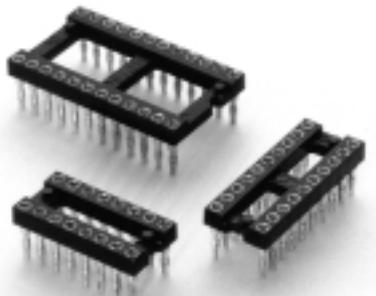
Total number of pins	Pinout diagram:			Quantity per tube	Ordering Information	
					A	B
10	0.5	0.2	0.3	40	104-13-210-41-770	104-13-210-41-780
4	0.2	0.3	0.4	102	104-13-304-41-770	104-13-304-41-780
6	0.3	0.3	0.4	67	104-13-306-41-770	104-13-306-41-780
8	0.4	0.3	0.4	50	104-13-308-41-770	104-13-308-41-780
10	0.5	0.3	0.4	40	104-13-310-41-770	104-13-310-41-780
14	0.7	0.3	0.4	28	104-13-314-41-770	104-13-314-41-780
16	0.8	0.3	0.4	25	104-13-316-41-770	104-13-316-41-780
18	0.9	0.3	0.4	22	104-13-318-41-770	104-13-318-41-780
20	1.0	0.3	0.4	20	104-13-320-41-770	104-13-320-41-780
22	1.1	0.3	0.4	18	104-13-322-41-770	104-13-322-41-780
24	1.2	0.3	0.4	16	104-13-324-41-770	104-13-324-41-780
28	1.4	0.3	0.4	14	104-13-328-41-770	104-13-328-41-780
20	1.0	0.4	0.5	20	104-13-420-41-770	104-13-420-41-780
22	1.1	0.4	0.5	18	104-13-422-41-770	104-13-422-41-780
24	1.2	0.4	0.5	16	104-13-424-41-770	104-13-424-41-780
28	1.4	0.4	0.5	14	104-13-428-41-770	104-13-428-41-780
32	1.6	0.4	0.5	12	104-13-432-41-770	104-13-432-41-780
24	1.2	0.6	0.7	16	104-13-624-41-770	104-13-624-41-780
28	1.4	0.6	0.7	14	104-13-628-41-770	104-13-628-41-780
32	1.6	0.6	0.7	12	104-13-632-41-770	104-13-632-41-780
36	1.8	0.6	0.7	11	104-13-636-41-770	104-13-636-41-780
40	2.0	0.6	0.7	10	104-13-640-41-770	104-13-640-41-780
42	2.1	0.6	0.7	9	104-13-642-41-770	104-13-642-41-780
48	2.4	0.6	0.7	8	104-13-648-41-770	104-13-648-41-780
50	2.5	0.6	0.7	8	104-13-650-41-770	104-13-650-41-780
52	2.6	0.6	0.7	7	104-13-652-41-770	104-13-652-41-780
50	2.5	0.9	1.0	8	104-13-950-41-770	104-13-950-41-780
52	2.6	0.9	1.0	7	104-13-952-41-770	104-13-952-41-780
64	3.2	0.9	1.0	6	104-13-964-41-770	104-13-964-41-780
PLATING CODE =					13	
Sleeve (Pin)					10μ" Au	
Contact (Clip)					30μ" Au	

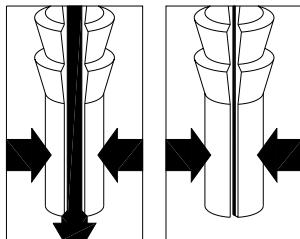
For High Temperature Insulators Add '100' To End Of Part Numbers



DUAL-IN-LINE SOCKETS
Solderless Press-Fit, Compliant Tail
Open Frame

Series 146

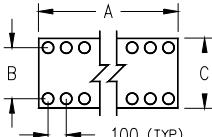
	<ul style="list-style-type: none"> Unique compliant tail pins conform to .040 ± .003" finished hole diameter without stressing inner layers. Two tail lengths are offered for .060"- .100" and .090"- .130" thick panels. Uses M-M# 4612 or 4613 pins with #30 contact rated at 3 amps. See page 131 for pin details. 	
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APPLICATION OF COMPLIANT TAIL PINS

Mill-Max' patented* compliant tail features precision machined pins that are hollow and slotted to conform to a .040" ± .003" diameter PTH. As the pin is inserted, the slot compresses to fit the PTH, thus avoiding damage (see illustration at left). The pin's tail has fine serrations that form a perfect "gas tight" connection that doesn't require soldering. And since the pin doesn't damage the hole, compliant tail sockets and connectors can be easily replaced.

*Patent No. 4,799,904.

Total number of pins	 A B C .100 (TYP)			Quantity per tube	Ordering Information			
					L=.120 (for .060"- .100" thick panel)			
6	0.3	0.3	0.4	67	146-XX-306-41-012	146-XX-306-41-013		
8	0.4	0.3	0.4	50	146-XX-308-41-012	146-XX-308-41-013		
14	0.7	0.3	0.4	28	146-XX-314-41-012	146-XX-314-41-013		
16	0.8	0.3	0.4	25	146-XX-316-41-012	146-XX-316-41-013		
18	0.9	0.3	0.4	22	146-XX-318-41-012	146-XX-318-41-013		
20	1.0	0.3	0.4	20	146-XX-320-41-012	146-XX-320-41-013		
24	1.2	0.3	0.4	16	146-XX-324-41-012	146-XX-324-41-013		
22	1.1	0.4	0.5	18	146-XX-422-41-012	146-XX-422-41-013		
24	1.2	0.6	0.7	16	146-XX-624-41-012	146-XX-624-41-013		
28	1.4	0.6	0.7	14	146-XX-628-41-012	146-XX-628-41-013		
32	1.6	0.6	0.7	12	146-XX-632-41-012	146-XX-632-41-013		
40	2.0	0.6	0.7	10	146-XX-640-41-012	146-XX-640-41-013		
SPECIFY PLATING CODE XX=					93		99	
Sleeve (Pin) 					200μ" Sn/Pb		200μ" Sn/Pb	
Contact (Clip) 					30μ" Au		200μ" Sn/Pb	



**DUAL-IN-LINE SOCKETS
With Integral Decoupling Capacitor
Open Frame**

Series 110, 122, 123...801

 110...801 A B C .020 DIA. .110 .095 .146 .165 .125 .025 SQUARE 122/123...801	<ul style="list-style-type: none"> Low profile DIP sockets with integral decoupling capacitor: $.1\mu\text{F}$ 20%-50V multilayer ceramic epoxy encapsulated. Temp. range: -25°C to $+85^\circ\text{C}$. Hi-Rel, 4-finger #30 clip rated at 3 amps. See page 208 for details. Uses M-M #1001, 0088, or 0089 pins. See pages 134 & 162 for details. High temperature insulator can withstand infra-red reflow and vapor phase soldering. 	
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Total number of pins	 A B C .100 (TYP)			Quantity per tube	Ordering Information		
					Solder Tail		
A	B	C			2 Level Wrapost L = .370	3 Level Wrapost L = .510	
14	0.7	0.3	0.4	28	110-XX-314-41-801	122-XX-314-41-801	123-XX-314-41-801
16	0.8	0.3	0.4	25	110-XX-316-41-801	122-XX-316-41-801	123-XX-316-41-801
18	0.9	0.3	0.4	22	110-XX-318-41-801	122-XX-318-41-801	123-XX-318-41-801
20	1.0	0.3	0.4	20	110-XX-320-41-801	122-XX-320-41-801	123-XX-320-41-801
22	1.1	0.3	0.4	18	110-XX-322-41-801	122-XX-322-41-801	123-XX-322-41-801
24	1.2	0.3	0.4	16	110-XX-324-41-801	122-XX-324-41-801	123-XX-324-41-801
28	1.4	0.3	0.4	14	110-XX-328-41-801	122-XX-328-41-801	123-XX-328-41-801
22	1.1	0.4	0.5	18	110-XX-422-41-801	122-XX-422-41-801	123-XX-422-41-801
24	1.2	0.6	0.7	16	110-XX-624-41-801	122-XX-624-41-801	123-XX-624-41-801
28	1.4	0.6	0.7	14	110-XX-628-41-801	122-XX-628-41-801	123-XX-628-41-801
32	1.6	0.6	0.7	12	110-XX-632-41-801	122-XX-632-41-801	123-XX-632-41-801
40	2.0	0.6	0.7	10	110-XX-640-41-801	122-XX-640-41-801	123-XX-640-41-801

**XX= Plating Code
See Below**

SPECIFY PLATING CODE XX=	13	93	
Sleeve (Pin)	10 μm Au	200 μm Sn/Pb	
Contact (Clip)	30 μm Au	30 μm Au	



DUAL-IN-LINE SOCKETS
Solder Tail and Wrapost
Closed Frame

Series 210, 222, 223

 210...001	<ul style="list-style-type: none"> Closed frame insulator withstands high mechanical impact. Low profile. Available with standard solder pins or 2-level and 3-level wraposts. Hi-Rel, 4-finger #30 clip rated at 3 amps. See page 208 for details. Uses M-M #1001, 0088, or 0089 pins. See pages 134 & 162 for details. 	
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Total number of pins	Pin layout diagram showing rows A, B, and C with 100 (TYP) spacing between rows.			Quantity per tube	Ordering Information					
					A	B	C	Solder Tail	2 Level Wrapost L = .370	3 Level Wrapost L = .510
6	0.3	0.3	0.4	67	210-XX-306-41-001	222-XX-306-41-001		223-XX-306-41-001		
8	0.4	0.3	0.4	50	210-XX-308-41-001	222-XX-308-41-001		223-XX-308-41-001		
10	0.5	0.3	0.4	40	210-XX-310-41-001	222-XX-310-41-001		223-XX-310-41-001		
14	0.7	0.3	0.4	28	210-XX-314-41-001	222-XX-314-41-001		223-XX-314-41-001		
16	0.8	0.3	0.4	25	210-XX-316-41-001	222-XX-316-41-001		223-XX-316-41-001		
18	0.9	0.3	0.4	22	210-XX-318-41-001	222-XX-318-41-001		223-XX-318-41-001		
20	1.0	0.3	0.4	20	210-XX-320-41-001	222-XX-320-41-001		223-XX-320-41-001		
22	1.1	0.3	0.4	18	210-XX-322-41-001	222-XX-322-41-001		223-XX-322-41-001		
24	1.2	0.3	0.4	16	210-XX-324-41-001	222-XX-324-41-001		223-XX-324-41-001		
22	1.1	0.4	0.5	18	210-XX-422-41-001	222-XX-422-41-001		223-XX-422-41-001		
24	1.2	0.4	0.5	16	210-XX-424-41-001	222-XX-424-41-001		223-XX-424-41-001		
24	1.2	0.6	0.7	16	210-XX-624-41-001	222-XX-624-41-001		223-XX-624-41-001		
28	1.4	0.6	0.7	14	210-XX-628-41-001	222-XX-628-41-001		223-XX-628-41-001		
32	1.6	0.6	0.7	12	210-XX-632-41-001	222-XX-632-41-001		223-XX-632-41-001		
36	1.8	0.6	0.7	11	210-XX-636-41-001	222-XX-636-41-001		223-XX-636-41-001		
40	2.0	0.6	0.7	10	210-XX-640-41-001	222-XX-640-41-001		223-XX-640-41-001		
64	3.2	0.9	1.0	6	210-XX-964-41-001	222-XX-964-41-001		223-XX-964-41-001		

**XX= Plating Code
See Below**

For High Temperature Insulators Add '100' To End Of Part Numbers

SPECIFY PLATING CODE XX=	13	93	
Sleeve (Pin)	10μ" Au		200μ" Sn/Pb
Contact (Clip)	30μ" Au		30μ" Au



MILITARY DUAL-IN-LINE SOCKETS
MIL-S-83734 APPROVED
Solder Tail, Closed Frame

Series 210...101

				<ul style="list-style-type: none"> Sockets are XY stackable. Machined outer sleeve with BeCu inner contact. Socket pins feature closed-end construction eliminating any solder/flux wicking problems. Packaged in tubes compatible with automatic insertion equipment. Uses Mill-Max #1001 pin. See page 134 for details. 		
				<h3>Ordering Information</h3>		
Total number of pins	A	B	C	Quantity per tube	Mill-Max Part Number	Military Part Number
6	0.3	0.3	0.4	67	210-XX-306-41-101	M83734/1-YYY
8	0.4	0.3	0.4	50	210-XX-308-41-101	M83734/2-YYY
14	0.7	0.3	0.4	28	210-XX-314-41-101	M83734/3-YYY
16	0.8	0.3	0.4	25	210-XX-316-41-101	M83734/4-YYY
18	0.9	0.3	0.4	22	210-XX-318-41-101	M83734/5-YYY
20	1.0	0.3	0.4	20	210-XX-320-41-101	M83734/13-YYY
22	1.1	0.4	0.5	18	210-XX-422-41-101	M83734/6-YYY
24	1.2	0.6	0.7	16	210-XX-624-41-101	M83734/8-YYY
28	1.4	0.6	0.7	14	210-XX-628-41-101	M83734/7-YYY
32	1.6	0.6	0.7	10	210-XX-632-41-101	M83734/17-YYY
40	2.0	0.6	0.7	8	210-XX-640-41-101	M83734/10-YYY
64	3.2	0.9	1.0	6	210-XX-964-41-101	M83734/15-YYY
SEE PAGE 116 FOR COMPLETE QPL						
SPECIFY MILL-MAX PLATING CODE XX=					33	83
FOR MILITARY CODE YYY=					031	032
(6 PIN ONLY) YYY=					025	026
(32 PIN ONLY) YYY=					013	014
Sleeve (Pin)					30μ" Au	100μ" Sn/Pb
Contact (Clip)					30μ" Au	100μ" Sn/Pb



MILITARY DUAL-IN-LINE SOCKETS
MIL-S-83734 APPROVED
3 Level Wrapost, Closed Frame

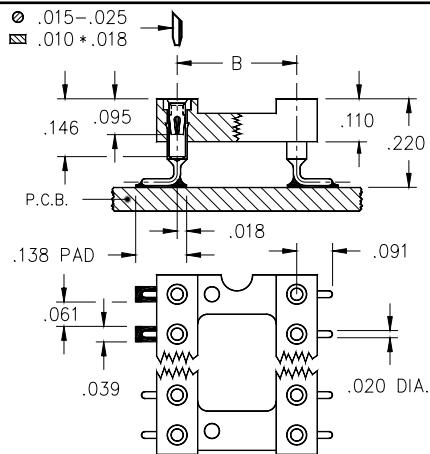
Series 223...101

			<ul style="list-style-type: none"> Sockets are XY stackable. Machined outer sleeve with BeCu inner contact. Socket pins feature closed-end construction eliminating any solder/flux wicking problems. Uses Mill-Max #0038-3 pin. See page 162 for details. 			
Total number of pins				Quantity per tube	Ordering Information	
	A	B	C		Mill-Max Part Number	Military Part Number
6	0.3	0.3	0.4	67	223-XX-306-41-101	M83734/1-YYY
8	0.4	0.3	0.4	50	223-XX-308-41-101	M83734/2-YYY
14	0.7	0.3	0.4	28	223-XX-314-41-101	M83734/3-YYY
16	0.8	0.3	0.4	25	223-XX-316-41-101	M83734/4-YYY
18	0.9	0.3	0.4	22	223-XX-318-41-101	M83734/5-YYY
20	1.0	0.3	0.4	20	223-XX-320-41-101	M83734/13-YYY
22	1.1	0.4	0.5	18	223-XX-422-41-101	M83734/6-YYY
24	1.2	0.6	0.7	16	223-XX-624-41-101	M83734/8-YYY
28	1.4	0.6	0.7	14	223-XX-628-41-101	M83734/7-YYY
32	1.6	0.6	0.7	12	223-XX-632-41-101	M83734/17-YYY
40	2.0	0.6	0.7	10	223-XX-640-41-101	M83734/10-YYY
64	3.2	0.9	1.0	6	223-XX-964-41-101	M83734/15-YYY
SEE PAGE 116 FOR COMPLETE QPL						
SPECIFY MILL-MAX PLATING CODE XX=			33	83	88	
FOR MILITARY CODE YYY=			010	011	012	
(32 PIN ONLY) YYYY=			007	008	009	
Sleeve (Pin)			30μ" Au	100μ" Sn/Pb	100μ" Sn/Pb	
Contact (Clip)			30μ" Au	30μ" Au	100μ" Sn/Pb	

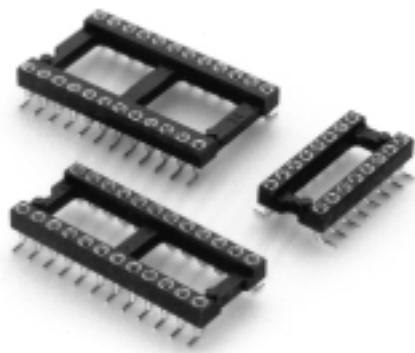


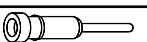
DUAL-IN-LINE SOCKETS
Surface Mount, Gull Wing
Open Frame

Series 110...105



- For infra-red reflow and vapor phase soldering
- Gull wing terminals for maximum strength and easy in-circuit test.
- Hi-Rel, 4-finger #30 clip rated at 3 amps. See page 208 for details.
- Uses M-M #1005 pin. See page 135 for details.

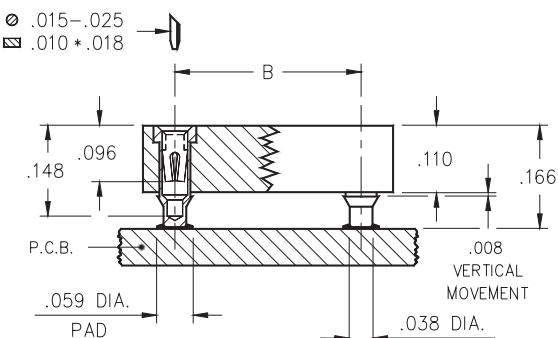
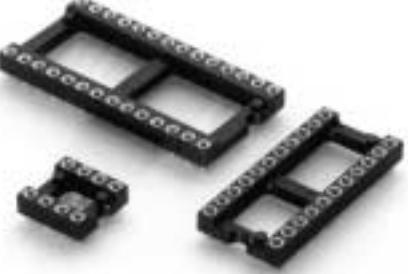
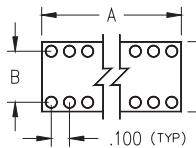


Total number of pins	Pinout diagram showing rows A, B, C and pitch .100 (TYP)			Quantity per tube	Ordering Information	
					A	C
10	0.5	0.2	0.3	40		110-93-210-41-105
4	0.2	0.3	0.4	102		110-93-304-41-105
6	0.3	0.3	0.4	67		110-93-306-41-105
8	0.4	0.3	0.4	50		110-93-308-41-105
10	0.5	0.3	0.4	40		110-93-310-41-105
14	0.7	0.3	0.4	28		110-93-314-41-105
16	0.8	0.3	0.4	25		110-93-316-41-105
18	0.9	0.3	0.4	22		110-93-318-41-105
20	1.0	0.3	0.4	20		110-93-320-41-105
22	1.1	0.3	0.4	18		110-93-322-41-105
24	1.2	0.3	0.4	16		110-93-324-41-105
28	1.4	0.3	0.4	14		110-93-328-41-105
20	1.0	0.4	0.5	20		110-93-420-41-105
22	1.1	0.4	0.5	18		110-93-422-41-105
24	1.2	0.4	0.5	16		110-93-424-41-105
28	1.4	0.4	0.5	14		110-93-428-41-105
32	1.6	0.4	0.5	12		110-93-432-41-105
24	1.2	0.6	0.7	32		110-93-624-41-105
28	1.4	0.6	0.7	28		110-93-628-41-105
32	1.6	0.6	0.7	24		110-93-632-41-105
36	1.8	0.6	0.7	22		110-93-636-41-105
40	2.0	0.6	0.7	20		110-93-640-41-105
42	2.1	0.6	0.7	18		110-93-642-41-105
48	2.4	0.6	0.7	16		110-93-648-41-105
50	2.5	0.6	0.7	16		110-93-650-41-105
52	2.6	0.6	0.7	14		110-93-652-41-105
50	2.5	0.9	1.0	16		110-93-950-41-105
52	2.6	0.9	1.0	14		110-93-952-41-105
64	3.2	0.9	1.0	12		110-93-964-41-105
PLATING CODE =					93	
Sleeve (Pin) 					200μ" Sn/Pb	
Contact (Clip) 					30μ" Au	



DUAL-IN-LINE SOCKETS
Surface Mount, Stub Tail
Open Frame

Series 114

			<ul style="list-style-type: none"> Unique floating contacts compensate for effects of unevenly dispensed solder paste. High temperature insulator can withstand infrared reflow and vapor phase soldering. Hi-Rel, 4-finger BeCu #30 clip rated at 3 amps. See page 208 for details. Uses Mill-Max #1434 pin. See page 131 for details. 		
			Ordering Information		
Total number of pins	A	B	C	Quantity per tube	
10	0.5	0.2	0.3	41	114-93-210-41-117
4	0.2	0.3	0.4	100	114-93-304-41-117
6	0.3	0.3	0.4	67	114-93-306-41-117
8	0.4	0.3	0.4	50	114-93-308-41-117
10	0.5	0.3	0.4	40	114-93-310-41-117
14	0.7	0.3	0.4	28	114-93-314-41-117
16	0.8	0.3	0.4	25	114-93-316-41-117
18	0.9	0.3	0.4	22	114-93-318-41-117
20	1.0	0.3	0.4	20	114-93-320-41-117
22	1.1	0.3	0.4	18	114-93-322-41-117
24	1.2	0.3	0.4	16	114-93-324-41-117
28	1.4	0.3	0.4	14	114-93-328-41-117
20	1.0	0.4	0.5	20	114-93-420-41-117
22	1.1	0.4	0.5	18	114-93-422-41-117
24	1.2	0.4	0.5	16	114-93-424-41-117
28	1.4	0.4	0.5	14	114-93-428-41-117
32	1.6	0.4	0.5	12	114-93-432-41-117
24	1.2	0.6	0.7	16	114-93-624-41-117
28	1.4	0.6	0.7	14	114-93-628-41-117
32	1.6	0.6	0.7	12	114-93-632-41-117
36	1.8	0.6	0.7	11	114-93-636-41-117
40	2.0	0.6	0.7	10	114-93-640-41-117
42	2.1	0.6	0.7	9	114-93-642-41-117
48	2.4	0.6	0.7	8	114-93-648-41-117
50	2.5	0.6	0.7	8	114-93-650-41-117
52	2.6	0.6	0.7	7	114-93-652-41-117
50	2.5	0.9	1.0	8	114-93-950-41-117
52	2.6	0.9	1.0	7	114-93-952-41-117
64	3.2	0.9	1.0	6	114-93-964-41-117
PLATING CODE = 93 Sleeve (Pin)  200μ" Sn/Pb Contact (Clip)  30μ" Au					



DUAL-IN-LINE SOCKETS
Surface Mount, Auto Placement, Stub Tail
Closed Frame

Series 214

	<ul style="list-style-type: none"> • Closed frame insulator is vision system compatible. • High-temp Nylon 46 insulator, suitable for infra-red and vapor phase soldering. • Unique floating contacts compensate for unevenly screened solder paste. • Available packaged in tubes or on tape & reel per EIA-481. • Uses Mill-Max #1434 pin. 	
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Total number of pins	A	B	C	Ordering Information																			
				QTY PER TUBE	TUBE PACKAGING	TAPE & REEL PACKAGING	TAPE WIDTH (mm)	QTY PER REEL															
VACUUM PAD TOP SURFACE ONLY																							
6	0.3	0.3	0.4	67	214-99-306-01-670800	214-99-306-01-670799	16	750															
8	0.4	0.3	0.4	50	214-99-308-01-670800	214-99-308-01-670799	16	1000															
14	0.7	0.3	0.4	28	214-99-314-01-670800	214-99-314-01-670799	32	750															
16	0.8	0.3	0.4	25	214-99-316-01-670800	214-99-316-01-670799	32	750															
18	0.9	0.3	0.4	22	214-99-318-01-670800	214-99-318-01-670799	44	750															
20	1.0	0.3	0.4	20	214-99-320-01-670800	214-99-320-01-670799	44	750															
VACUUM PAD TOP AND BOTTOM																							
24	1.2	0.6	0.7	16	214-99-624-01-670800	214-99-624-01-670799	44	400															
28	1.4	0.6	0.7	14	214-99-628-01-670800	214-99-628-01-670799	56	400															
32	1.6	0.6	0.7	12	214-99-632-01-670800	214-99-632-01-670799	56	400															
40	2.0	0.6	0.7	10	214-99-640-01-670800	NOT AVAILABLE																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">PLATING CODE =</td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;">99</td> </tr> <tr> <td style="padding: 2px;">Sleeve (Pin) </td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;">200μ" Sn/Pb</td> </tr> <tr> <td style="padding: 2px;">Contact (Clip) </td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;">200μ" Sn/Pb</td> </tr> </table>									PLATING CODE =				99	Sleeve (Pin)				200μ" Sn/Pb	Contact (Clip)				200μ" Sn/Pb
PLATING CODE =				99																			
Sleeve (Pin)				200μ" Sn/Pb																			
Contact (Clip)				200μ" Sn/Pb																			



DUAL-IN-LINE SOCKETS
1 thru 4 Level Wrapost
Open Frame

Series 121, 122, 123, 124

			<ul style="list-style-type: none"> Solderless wrapost terminals are firmly locked in the insulator body to withstand torque of wrapping tool. Hi-Rel, 4-finger #30 clip rated at 3 amps. See page 208 for details. Uses M-M #0040, 0089, 0088 or 0086 pins. See page 162 for details. 					
Total number of pins		Quantity per tube						
A	B	C	1 Level Wrapost L = .260	2 Level Wrapost L = .370	3 Level Wrapost L = .510	4 Level Wrapost L = .630		
10	0.5	0.2	0.3	40	121-XX-210-41-001	122-XX-210-41-001	123-XX-210-41-001	124-XX-210-41-002
4	0.2	0.3	0.4	102	121-XX-304-41-001	122-XX-304-41-001	123-XX-304-41-001	124-XX-304-41-002
6	0.3	0.3	0.4	67	121-XX-306-41-001	122-XX-306-41-001	123-XX-306-41-001	124-XX-306-41-002
8	0.4	0.3	0.4	50	121-XX-308-41-001	122-XX-308-41-001	123-XX-308-41-001	124-XX-308-41-002
10	0.5	0.3	0.4	40	121-XX-310-41-001	122-XX-310-41-001	123-XX-310-41-001	124-XX-310-41-002
14	0.7	0.3	0.4	28	121-XX-314-41-001	122-XX-314-41-001	123-XX-314-41-001	124-XX-314-41-002
16	0.8	0.3	0.4	25	121-XX-316-41-001	122-XX-316-41-001	123-XX-316-41-001	124-XX-316-41-002
18	0.9	0.3	0.4	22	121-XX-318-41-001	122-XX-318-41-001	123-XX-318-41-001	124-XX-318-41-002
20	1.0	0.3	0.4	20	121-XX-320-41-001	122-XX-320-41-001	123-XX-320-41-001	124-XX-320-41-002
22	1.1	0.3	0.4	18	121-XX-322-41-001	122-XX-322-41-001	123-XX-322-41-001	124-XX-322-41-002
24	1.2	0.3	0.4	16	121-XX-324-41-001	122-XX-324-41-001	123-XX-324-41-001	124-XX-324-41-002
28	1.4	0.3	0.4	14	121-XX-328-41-001	122-XX-328-41-001	123-XX-328-41-001	124-XX-328-41-002
20	1.0	0.4	0.5	20	121-XX-420-41-001	122-XX-420-41-001	123-XX-420-41-001	124-XX-420-41-002
22	1.1	0.4	0.5	18	121-XX-422-41-001	122-XX-422-41-001	123-XX-422-41-001	124-XX-422-41-002
24	1.2	0.4	0.5	16	121-XX-424-41-001	122-XX-424-41-001	123-XX-424-41-001	124-XX-424-41-002
28	1.4	0.4	0.5	14	121-XX-428-41-001	122-XX-428-41-001	123-XX-428-41-001	124-XX-428-41-002
32	1.6	0.4	0.5	12	121-XX-432-41-001	122-XX-432-41-001	123-XX-432-41-001	124-XX-432-41-002
24	1.2	0.6	0.7	16	121-XX-624-41-001	122-XX-624-41-001	123-XX-624-41-001	124-XX-624-41-002
28	1.4	0.6	0.7	14	121-XX-628-41-001	122-XX-628-41-001	123-XX-628-41-001	124-XX-628-41-002
32	1.6	0.6	0.7	12	121-XX-632-41-001	122-XX-632-41-001	123-XX-632-41-001	124-XX-632-41-002
36	1.8	0.6	0.7	11	121-XX-636-41-001	122-XX-636-41-001	123-XX-636-41-001	124-XX-636-41-002
40	2.0	0.6	0.7	10	121-XX-640-41-001	122-XX-640-41-001	123-XX-640-41-001	124-XX-640-41-002
42	2.1	0.6	0.7	9	121-XX-642-41-001	122-XX-642-41-001	123-XX-642-41-001	124-XX-642-41-002
48	2.4	0.6	0.7	8	121-XX-648-41-001	122-XX-648-41-001	123-XX-648-41-001	124-XX-648-41-002
50	2.5	0.6	0.7	8	121-XX-650-41-001	122-XX-650-41-001	123-XX-650-41-001	124-XX-650-41-002
52	2.6	0.6	0.7	7	121-XX-652-41-001	122-XX-652-41-001	123-XX-652-41-001	124-XX-652-41-002
50	2.5	0.9	1.0	8	121-XX-950-41-001	122-XX-950-41-001	123-XX-950-41-001	124-XX-950-41-002
52	2.6	0.9	1.0	7	121-XX-952-41-001	122-XX-952-41-001	123-XX-952-41-001	124-XX-952-41-002
64	3.2	0.9	1.0	6	121-XX-964-41-001	122-XX-964-41-001	123-XX-964-41-001	124-XX-964-41-002
SPECIFY PLATING CODE XX=			13	93				
Sleeve (Pin)		10μ" Au		200μ" Sn/Pb				
Contact (Clip)		30μ" Au		30μ" Au				



DUAL-IN-LINE SOCKETS
Pluggable Wrapost
Open Frame

Series 126

				<ul style="list-style-type: none"> Combines one thru three level wrap post with pluggable solder tail. Suitable for use as an interconnect socket with intermediate wire-wrapped connections. Hi-Rel, 4-finger #30 clip rated at 3 amps. See page 208 for details. Uses M-M #2601, 2602 or 2603 pins. See page 163 for details. 					
Total number of pins				Ordering Information					
				L = .425 (1 level = .232)				L = .543 (2 level = .350)	
Total number of pins	A	B	C	Quantity per tube	L = .425 (1 level = .232)	L = .543 (2 level = .350)	L = .661 (3 level = .469)		
10	0.5	0.2	0.3	40	126-XX-210-41-001	126-XX-210-41-002	126-XX-210-41-003		
4	0.2	0.3	0.4	102	126-XX-304-41-001	126-XX-304-41-002	126-XX-304-41-003		
6	0.3	0.3	0.4	67	126-XX-306-41-001	126-XX-306-41-002	126-XX-306-41-003		
8	0.4	0.3	0.4	50	126-XX-308-41-001	126-XX-308-41-002	126-XX-308-41-003		
10	0.5	0.3	0.4	40	126-XX-310-41-001	126-XX-310-41-002	126-XX-310-41-003		
14	0.7	0.3	0.4	28	126-XX-314-41-001	126-XX-314-41-002	126-XX-314-41-003		
16	0.8	0.3	0.4	25	126-XX-316-41-001	126-XX-316-41-002	126-XX-316-41-003		
18	0.9	0.3	0.4	22	126-XX-318-41-001	126-XX-318-41-002	126-XX-318-41-003		
20	1.0	0.3	0.4	20	126-XX-320-41-001	126-XX-320-41-002	126-XX-320-41-003		
22	1.1	0.3	0.4	18	126-XX-322-41-001	126-XX-322-41-002	126-XX-322-41-003		
24	1.2	0.3	0.4	16	126-XX-324-41-001	126-XX-324-41-002	126-XX-324-41-003		
28	1.4	0.3	0.4	14	126-XX-328-41-001	126-XX-328-41-002	126-XX-328-41-003		
20	1.0	0.4	0.5	20	126-XX-420-41-001	126-XX-420-41-002	126-XX-420-41-003		
22	1.1	0.4	0.5	18	126-XX-422-41-001	126-XX-422-41-002	126-XX-422-41-003		
24	1.2	0.4	0.5	16	126-XX-424-41-001	126-XX-424-41-002	126-XX-424-41-003		
28	1.4	0.4	0.5	14	126-XX-428-41-001	126-XX-428-41-002	126-XX-428-41-003		
32	1.6	0.4	0.5	12	126-XX-432-41-001	126-XX-432-41-002	126-XX-432-41-003		
24	1.2	0.6	0.7	16	126-XX-624-41-001	126-XX-624-41-002	126-XX-624-41-003		
28	1.4	0.6	0.7	14	126-XX-628-41-001	126-XX-628-41-002	126-XX-628-41-003		
32	1.6	0.6	0.7	12	126-XX-632-41-001	126-XX-632-41-002	126-XX-632-41-003		
36	1.8	0.6	0.7	11	126-XX-636-41-001	126-XX-636-41-002	126-XX-636-41-003		
40	2.0	0.6	0.7	10	126-XX-640-41-001	126-XX-640-41-002	126-XX-640-41-003		
42	2.1	0.6	0.7	9	126-XX-642-41-001	126-XX-642-41-002	126-XX-642-41-003		
48	2.4	0.6	0.7	8	126-XX-648-41-001	126-XX-648-41-002	126-XX-648-41-003		
50	2.5	0.6	0.7	8	126-XX-650-41-001	126-XX-650-41-002	126-XX-650-41-003		
52	2.6	0.6	0.7	7	126-XX-652-41-001	126-XX-652-41-002	126-XX-652-41-003		
50	2.5	0.9	1.0		126-XX-950-41-001	126-XX-950-41-002	126-XX-950-41-003		
52	2.6	0.9	1.0		126-XX-952-41-001	126-XX-952-41-002	126-XX-952-41-003		
64	3.2	0.9	1.0		126-XX-964-41-001	126-XX-964-41-002	126-XX-964-41-003		
SPECIFY PLATING CODE XX=				13		93			
Sleeve (Pin)				10μ" Au		200μ" Sn/Pb			
Contact (Clip)				30μ" Au		30μ" Au			

			<ul style="list-style-type: none"> For mechanical and electrical interconnection and stacking of PCBs. Other platings and heights on request. Hi-Rel, 4-finger #30 clip rated at 3 amps. See page 208 for details. Uses M-M #0153 pin. See page 136 for details. 						
Ordering Information									
Total number of pins	A	B	C	Quantity per tube	L = .236	L = .315	L = .402	L = .472	L = .594
10	0.5	0.2	0.3	40	116-93-210-41-006	116-93-210-41-003	116-93-210-41-007	116-93-210-41-008	116-93-210-41-001
4	0.2	0.3	0.4	102	116-93-304-41-006	116-93-304-41-003	116-93-304-41-007	116-93-304-41-008	116-93-304-41-001
6	0.3	0.3	0.4	67	116-93-306-41-006	116-93-306-41-003	116-93-306-41-007	116-93-306-41-008	116-93-306-41-001
8	0.4	0.3	0.4	50	116-93-308-41-006	116-93-308-41-003	116-93-308-41-007	116-93-308-41-008	116-93-308-41-001
10	0.5	0.3	0.4	40	116-93-310-41-006	116-93-310-41-003	116-93-310-41-007	116-93-310-41-008	116-93-310-41-001
14	0.7	0.3	0.4	28	116-93-314-41-006	116-93-314-41-003	116-93-314-41-007	116-93-314-41-008	116-93-314-41-001
16	0.8	0.3	0.4	25	116-93-316-41-006	116-93-316-41-003	116-93-316-41-007	116-93-316-41-008	116-93-316-41-001
18	0.9	0.3	0.4	22	116-93-318-41-006	116-93-318-41-003	116-93-318-41-007	116-93-318-41-008	116-93-318-41-001
20	1.0	0.3	0.4	20	116-93-320-41-006	116-93-320-41-003	116-93-320-41-007	116-93-320-41-008	116-93-320-41-001
22	1.1	0.3	0.4	18	116-93-322-41-006	116-93-322-41-003	116-93-322-41-007	116-93-322-41-008	116-93-322-41-001
24	1.2	0.3	0.4	16	116-93-324-41-006	116-93-324-41-003	116-93-324-41-007	116-93-324-41-008	116-93-324-41-001
28	1.4	0.3	0.4	14	116-93-328-41-006	116-93-328-41-003	116-93-328-41-007	116-93-328-41-008	116-93-328-41-001
20	1.0	0.4	0.5	20	116-93-420-41-006	116-93-420-41-003	116-93-420-41-007	116-93-420-41-008	116-93-420-41-001
22	1.1	0.4	0.5	18	116-93-422-41-006	116-93-422-41-003	116-93-422-41-007	116-93-422-41-008	116-93-422-41-001
24	1.2	0.4	0.5	16	116-93-424-41-006	116-93-424-41-003	116-93-424-41-007	116-93-424-41-008	116-93-424-41-001
28	1.4	0.4	0.5	14	116-93-428-41-006	116-93-428-41-003	116-93-428-41-007	116-93-428-41-008	116-93-428-41-001
32	1.6	0.4	0.5	12	116-93-432-41-006	116-93-432-41-003	116-93-432-41-007	116-93-432-41-008	116-93-432-41-001
24	1.2	0.6	0.7	16	116-93-624-41-006	116-93-624-41-003	116-93-624-41-007	116-93-624-41-008	116-93-624-41-001
28	1.4	0.6	0.7	14	116-93-628-41-006	116-93-628-41-003	116-93-628-41-007	116-93-628-41-008	116-93-628-41-001
32	1.6	0.6	0.7	12	116-93-632-41-006	116-93-632-41-003	116-93-632-41-007	116-93-632-41-008	116-93-632-41-001
36	1.8	0.6	0.7	11	116-93-636-41-006	116-93-636-41-003	116-93-636-41-007	116-93-636-41-008	116-93-636-41-001
40	2.0	0.6	0.7	10	116-93-640-41-006	116-93-640-41-003	116-93-640-41-007	116-93-640-41-008	116-93-640-41-001
42	2.1	0.6	0.7	9	116-93-642-41-006	116-93-642-41-003	116-93-642-41-007	116-93-642-41-008	116-93-642-41-001
48	2.4	0.6	0.7	8	116-93-648-41-006	116-93-648-41-003	116-93-648-41-007	116-93-648-41-008	116-93-648-41-001
50	2.5	0.6	0.7	8	116-93-650-41-006	116-93-650-41-003	116-93-650-41-007	116-93-650-41-008	116-93-650-41-001
52	2.6	0.6	0.7	7	116-93-652-41-006	116-93-652-41-003	116-93-652-41-007	116-93-652-41-008	116-93-652-41-001
50	2.5	0.9	1.0		116-93-950-41-006	116-93-950-41-003	116-93-950-41-007	116-93-950-41-008	116-93-950-41-001
52	2.6	0.9	1.0		116-93-952-41-006	116-93-952-41-003	116-93-952-41-007	116-93-952-41-008	116-93-952-41-001
64	3.2	0.9	1.0		116-93-964-41-006	116-93-964-41-003	116-93-964-41-007	116-93-964-41-008	116-93-964-41-001
PLATING CODE =					93				
Sleeve (Pin)					200μ" Sn/Pb				
Contact (Clip)					30μ" Au				

 299...10-001 299...10-002 299...11-001	<ul style="list-style-type: none"> For components to be mounted perpendicularly to the PCB, such as LED displays. Horizontal mount solder tails are available with either .300" (standard) or .100" row spacing. Horizontal mount uses M-M# 1103/0903, 1103/1610 or 1103/0904 pins. See page 135 & 136 for details. 	
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Total number of pins	Quantity per tube			Horizontal Mount Ordering Information	
	A	B	C	E=.300	E=.100
6	0.3	0.3	0.4	299-93-306-10-001	299-93-306-11-001
8	0.4	0.3	0.4	299-93-308-10-001	299-93-308-11-001
10	0.5	0.3	0.4	299-93-310-10-001	299-93-310-11-001
12	0.6	0.3	0.4	299-93-312-10-001	299-93-312-11-001
14	0.7	0.3	0.4	299-93-314-10-001	299-93-314-11-001
16	0.8	0.3	0.4	299-93-316-10-001	299-93-316-11-001
18	0.9	0.3	0.4	299-93-318-10-001	299-93-318-11-001
20	1.0	0.3	0.4	299-93-320-10-001	299-93-320-11-001
24	1.2	0.3	0.4	299-93-324-10-001	299-93-324-11-001
8	0.4	0.6	0.7	299-93-608-10-002	
10	0.5	0.6	0.7	299-93-610-10-002	
12	0.6	0.6	0.7	299-93-612-10-002	
14	0.7	0.6	0.7	299-93-614-10-002	
16	0.8	0.6	0.7	299-93-616-10-002	
18	0.9	0.6	0.7	299-93-618-10-002	
20	1.0	0.6	0.7	299-93-620-10-002	
22	1.1	0.6	0.7	299-93-622-10-002	
24	1.2	0.6	0.7	299-93-624-10-002	
26	1.3	0.6	0.7	299-93-626-10-002	
28	1.4	0.6	0.7	299-93-628-10-002	
30	1.5	0.6	0.7	299-93-630-10-002	
32	1.6	0.6	0.7	299-93-632-10-002	
36	1.8	0.6	0.7	299-93-636-10-002	
40	2.0	0.6	0.7	299-93-640-10-002	
PLATING CODE =			93		
Sleeve (Pin)			200μ" Sn/Pb		
Contact (Clip)			30μ" Au		



DUAL-IN-LINE SOCKETS

Series 612

Carrier Type
Solder Tail

	<ul style="list-style-type: none"> Convenient way to load loose receptacles on PC board. See below for application details. Offers maximum ventilation and better visibility for inspection. Hi-Rel, 4-finger #30 clip rated at 3 amps. See page 208 for details. Uses Mill-Max #0255 pin receptacle. See page 134 for details. 				
Total number of pins	A	B	C	Quantity per tube	
10	0.5	0.2	0.3	40	612-XX-210-41-001
4	0.2	0.3	0.4	102	612-XX-304-41-001
6	0.3	0.3	0.4	67	612-XX-306-41-001
8	0.4	0.3	0.4	50	612-XX-308-41-001
10	0.5	0.3	0.4	40	612-XX-310-41-001
14	0.7	0.3	0.4	28	612-XX-314-41-001
16	0.8	0.3	0.4	25	612-XX-316-41-001
18	0.9	0.3	0.4	22	612-XX-318-41-001
20	1.0	0.3	0.4	20	612-XX-320-41-001
22	1.1	0.3	0.4	18	612-XX-322-41-001
24	1.2	0.3	0.4	16	612-XX-324-41-001
28	1.4	0.3	0.4	14	612-XX-328-41-001
20	1.0	0.4	0.5	20	612-XX-420-41-001
22	1.1	0.4	0.5	18	612-XX-422-41-001
24	1.2	0.4	0.5	16	612-XX-424-41-001
28	1.4	0.4	0.5	14	612-XX-428-41-001
32	1.6	0.4	0.5	12	612-XX-432-41-001
24	1.2	0.6	0.7	16	612-XX-624-41-001
28	1.4	0.6	0.7	14	612-XX-628-41-001
32	1.6	0.6	0.7	12	612-XX-632-41-001
36	1.8	0.6	0.7	11	612-XX-636-41-001
40	2.0	0.6	0.7	10	612-XX-640-41-001
42	2.1	0.6	0.7	9	612-XX-642-41-001
48	2.4	0.6	0.7	8	612-XX-648-41-001
50	2.5	0.6	0.7	8	612-XX-650-41-001
52	2.6	0.6	0.7	7	612-XX-652-41-001
50	2.5	0.9	1.0	8	612-XX-950-41-001
52	2.6	0.9	1.0	7	612-XX-952-41-001
64	3.2	0.9	1.0	6	612-XX-964-41-001
SPECIFY PLATING CODE XX=				13	93
Sleeve (Pin)			10μ" Au		200μ" Sn/Pb
Contact (Clip)			30μ" Au		30μ" Au



DUAL-IN-LINE SOCKETS

Series 614...001

Carrier Type
Low Profile

				<ul style="list-style-type: none"> Convenient way to load loose receptacles on PC board. See page 32 for application details. Removable plastic carriers can be returned for reloading. Hi-Rel, 4-finger BeCu #30 clip rated at 3 amps. See page 208 for details. Uses M-M#1401 pin. See page 139 for details. 		
Total number of pins				Quantity per tube	Ordering Information	
	A	B	C			
10	0.5	0.2	0.3	40	614-XX-210-41-001	
4	0.2	0.3	0.4	102	614-XX-304-41-001	
6	0.3	0.3	0.4	67	614-XX-306-41-001	
8	0.4	0.3	0.4	50	614-XX-308-41-001	
10	0.5	0.3	0.4	40	614-XX-310-41-001	
14	0.7	0.3	0.4	28	614-XX-314-41-001	
16	0.8	0.3	0.4	25	614-XX-316-41-001	
18	0.9	0.3	0.4	22	614-XX-318-41-001	
20	1.0	0.3	0.4	20	614-XX-320-41-001	
22	1.1	0.3	0.4	18	614-XX-322-41-001	
24	1.2	0.3	0.4	16	614-XX-324-41-001	
28	1.4	0.3	0.4	14	614-XX-328-41-001	
20	1.0	0.4	0.5	20	614-XX-420-41-001	
22	1.1	0.4	0.5	18	614-XX-422-41-001	
24	1.2	0.4	0.5	16	614-XX-424-41-001	
28	1.4	0.4	0.5	14	614-XX-428-41-001	
32	1.6	0.4	0.5	12	614-XX-432-41-001	
24	1.2	0.6	0.7	16	614-XX-624-41-001	
28	1.4	0.6	0.7	14	614-XX-628-41-001	
32	1.6	0.6	0.7	12	614-XX-632-41-001	
36	1.8	0.6	0.7	11	614-XX-636-41-001	
40	2.0	0.6	0.7	10	614-XX-640-41-001	
42	2.1	0.6	0.7	9	614-XX-642-41-001	
48	2.4	0.6	0.7	8	614-XX-648-41-001	
50	2.5	0.6	0.7	8	614-XX-650-41-001	
52	2.6	0.6	0.7	7	614-XX-652-41-001	
50	2.5	0.9	1.0	8	614-XX-950-41-001	
52	2.6	0.9	1.0	7	614-XX-952-41-001	
64	3.2	0.9	1.0	6	614-XX-964-41-001	
XX= Plating Code See Below				SPECIFY PLATING CODE XX=	93	99
				Sleeve (Pin)	200μ" Sn/Pb	200μ" Sn/Pb
				Contact (Clip)	30μ" Au	200μ" Sn/Pb



DUAL-IN-LINE SOCKETS

Carrier Type
Low Profile

Series 605, 614

	<ul style="list-style-type: none"> Low profile receptacles sit only .031" high above the board. Removable plastic carriers can be returned for reloading. Hi-Rel, 3-finger #11 BeCu contact is rated at 3 amps. See page 206 for details. Uses M-M#1407 & 0548 receptacles. See page 126 for details. 	
--	---	--

Total number of pins	Dimensions A, B, C			Quantity per tube	Ordering Information		
					Ordering Information		
	A	B	C		L = .146 (.039 Min. Mounting Hole)		
10	0.5	0.2	0.3	40	614-XX-210-31-007	605-XX-210-11-480	
4	0.2	0.3	0.4	102	614-XX-304-31-007	605-XX-304-11-480	
6	0.3	0.3	0.4	67	614-XX-306-31-007	605-XX-306-11-480	
8	0.4	0.3	0.4	50	614-XX-308-31-007	605-XX-308-11-480	
10	0.5	0.3	0.4	40	614-XX-310-31-007	605-XX-310-11-480	
14	0.7	0.3	0.4	28	614-XX-314-31-007	605-XX-314-11-480	
16	0.8	0.3	0.4	25	614-XX-316-31-007	605-XX-316-11-480	
18	0.9	0.3	0.4	22	614-XX-318-31-007	605-XX-318-11-480	
20	1.0	0.3	0.4	20	614-XX-320-31-007	605-XX-320-11-480	
22	1.1	0.3	0.4	18	614-XX-322-31-007	605-XX-322-11-480	
24	1.2	0.3	0.4	16	614-XX-324-31-007	605-XX-324-11-480	
28	1.4	0.3	0.4	14	614-XX-328-31-007	605-XX-328-11-480	
20	1.0	0.4	0.5	20	614-XX-420-31-007	605-XX-420-11-480	
22	1.1	0.4	0.5	18	614-XX-422-31-007	605-XX-422-11-480	
24	1.2	0.4	0.5	16	614-XX-424-31-007	605-XX-424-11-480	
28	1.4	0.4	0.5	14	614-XX-428-31-007	605-XX-428-11-480	
32	1.6	0.4	0.5	12	614-XX-432-31-007	605-XX-432-11-480	
24	1.2	0.6	0.7	16	614-XX-624-31-007	605-XX-624-11-480	
28	1.4	0.6	0.7	14	614-XX-628-31-007	605-XX-628-11-480	
32	1.6	0.6	0.7	12	614-XX-632-31-007	605-XX-632-11-480	
36	1.8	0.6	0.7	11	614-XX-636-31-007	605-XX-636-11-480	
40	2.0	0.6	0.7	10	614-XX-640-31-007	605-XX-640-11-480	
42	2.1	0.6	0.7	9	614-XX-642-31-007	605-XX-642-11-480	
48	2.4	0.6	0.7	8	614-XX-648-31-007	605-XX-648-11-480	
50	2.5	0.6	0.7	8	614-XX-650-31-007	605-XX-650-11-480	
52	2.6	0.6	0.7	7	614-XX-652-31-007	605-XX-652-11-480	
50	2.5	0.9	1.0	8	614-XX-950-31-007	605-XX-950-11-480	
52	2.6	0.9	1.0	7	614-XX-952-31-007	605-XX-952-11-480	
64	3.2	0.9	1.0	6	614-XX-964-31-007	605-XX-964-11-480	
SPECIFY PLATING CODE XX=						93	99
Sleeve (Pin)						200μ" Sn/Pb	200μ" Sn/Pb
Contact (Clip)						30μ" Au	200μ" Sn/Pb

**XX= Plating Code
See Below**



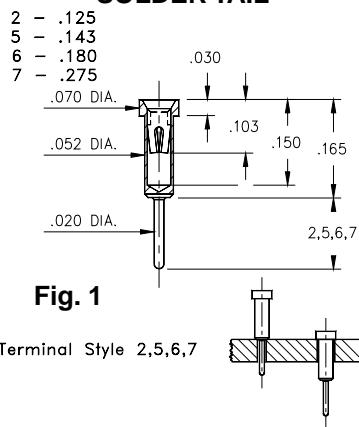
DUAL-IN-LINE SOCKETS
Carrier Type
Ultra Low Profile

Series 614

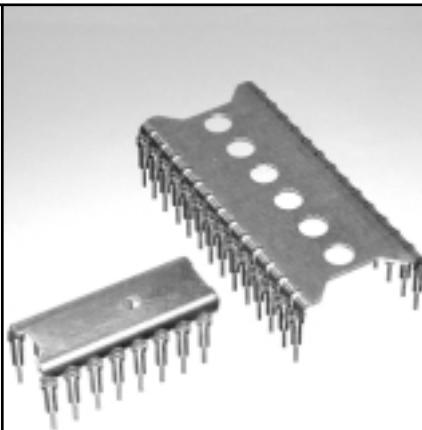
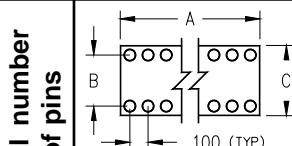
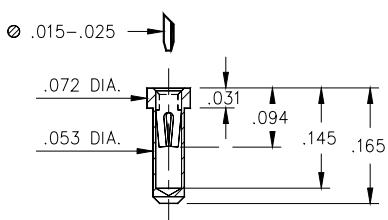
 614...012 614...018	<ul style="list-style-type: none"> Ultra low profile receptacles sit only .018" high above the board. Removable plastic carriers can be returned for reloading. Hi-Rel, 3-finger #11 BeCu contact is rated at 3 amps. See page 206 for details. Uses M-M#0552-1 & 0552-2 receptacles. See page 127 for details. 	
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Total number of pins	 .100 (TYP)			Quantity per tube	Ordering Information			
					L = .136 (.039 Min. Mounting Hole)	L = .170 (.039 Min. Mounting Hole)		
10	0.5	0.2	0.3	40	614-XX-210-31-012	614-XX-210-31-018		
4	0.2	0.3	0.4	102	614-XX-304-31-012	614-XX-304-31-018		
6	0.3	0.3	0.4	67	614-XX-306-31-012	614-XX-306-31-018		
8	0.4	0.3	0.4	50	614-XX-308-31-012	614-XX-308-31-018		
10	0.5	0.3	0.4	40	614-XX-310-31-012	614-XX-310-31-018		
14	0.7	0.3	0.4	28	614-XX-314-31-012	614-XX-314-31-018		
16	0.8	0.3	0.4	25	614-XX-316-31-012	614-XX-316-31-018		
18	0.9	0.3	0.4	22	614-XX-318-31-012	614-XX-318-31-018		
20	1.0	0.3	0.4	20	614-XX-320-31-012	614-XX-320-31-018		
22	1.1	0.3	0.4	18	614-XX-322-31-012	614-XX-322-31-018		
24	1.2	0.3	0.4	16	614-XX-324-31-012	614-XX-324-31-018		
28	1.4	0.3	0.4	14	614-XX-328-31-012	614-XX-328-31-018		
20	1.0	0.4	0.5	20	614-XX-420-31-012	614-XX-420-31-018		
22	1.1	0.4	0.5	18	614-XX-422-31-012	614-XX-422-31-018		
24	1.2	0.4	0.5	16	614-XX-424-31-012	614-XX-424-31-018		
28	1.4	0.4	0.5	14	614-XX-428-31-012	614-XX-428-31-018		
32	1.6	0.4	0.5	12	614-XX-432-31-012	614-XX-432-31-018		
24	1.2	0.6	0.7	16	614-XX-624-31-012	614-XX-624-31-018		
28	1.4	0.6	0.7	14	614-XX-628-31-012	614-XX-628-31-018		
32	1.6	0.6	0.7	12	614-XX-632-31-012	614-XX-632-31-018		
36	1.8	0.6	0.7	11	614-XX-636-31-012	614-XX-636-31-018		
40	2.0	0.6	0.7	10	614-XX-640-31-012	614-XX-640-31-018		
42	2.1	0.6	0.7	9	614-XX-642-31-012	614-XX-642-31-018		
48	2.4	0.6	0.7	8	614-XX-648-31-012	614-XX-648-31-018		
50	2.5	0.6	0.7	8	614-XX-650-31-012	614-XX-650-31-018		
52	2.6	0.6	0.7	7	614-XX-652-31-012	614-XX-652-31-018		
50	2.5	0.9	1.0	8	614-XX-950-31-012	614-XX-950-31-018		
52	2.6	0.9	1.0	7	614-XX-952-31-012	614-XX-952-31-018		
64	3.2	0.9	1.0	6	614-XX-964-31-012	614-XX-964-31-018		
SPECIFY PLATING CODE XX=							93	
Sleeve (Pin)							200μ" Sn/Pb	
Contact (Clip)							30μ" Au	
Contact (Clip)							200μ" Sn/Pb	

**XX= Plating Code
See Below**

SOLDER TAIL


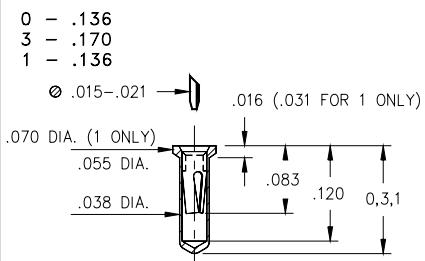
- Allows for maximum air circulation under the ICs.
- Sockets are XY stackable.
- Socket pins feature closed-end construction eliminating any solder wicking problems.
- Direct visibility for soldering, inspection and repair.


LOW PROFILE


Total number of pins
Quantity per tube

Ordering Information

A	B	C	Quantity per tube	Part Number
6	0.3	0.3	67	694-XX-306-00-67Y
8	0.4	0.3	50	694-XX-308-00-67Y
14	0.7	0.3	28	694-XX-314-00-67Y
16	0.8	0.3	25	694-XX-316-00-67Y
18	0.9	0.3	22	694-XX-318-00-67Y
20	1.0	0.3	20	694-XX-320-00-67Y
22	1.1	0.3	18	694-XX-322-00-67Y
24	1.2	0.3	16	694-XX-324-00-67Y
24	1.2	0.4	16	694-XX-424-00-67Y
24	1.2	0.6	16	694-XX-624-00-67Y
28	1.4	0.6	14	694-XX-628-00-67Y
32	1.6	0.6	12	694-XX-632-00-67Y
40	2.0	0.6	10	694-XX-640-00-67Y

ULTRA LOW PROFILE

Socket Pin Information

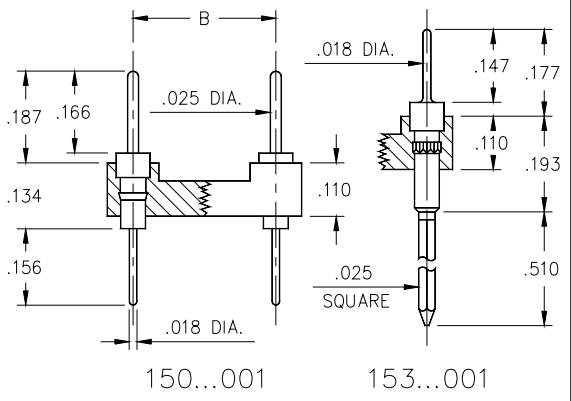
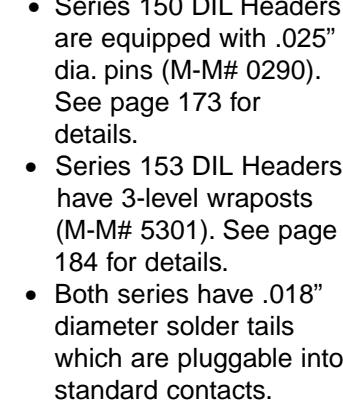
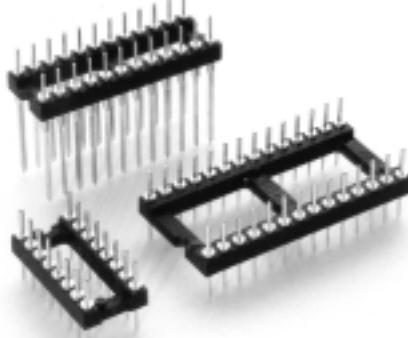
	Terminal Length	Body Diameter	Fig. #
Y = 0	.136	.038	3
Y = 1	.136	.038	3
Y = 2	.125	.020	1
Y = 3	.170	.038	3
Y = 4	.165	.053	2
Y = 5	.143	.020	1
Y = 6	.180	.020	1
Y = 7	.275	.020	1
Y = 8	.155	.034	4

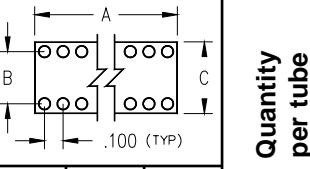
SPECIFY PLATING CODE XX=			93	99
Sleeve (Pin)	(Diagram of a sleeve pin)		200μ" Sn/Pb	200μ" Sn/Pb
Contact (Clip)	(Diagram of a contact clip)		30μ" Au	200μ" Sn/Pb



DUAL-IN-LINE PIN HEADERS
Solder Tail and Wrapost
Open Frame

Series 150, 153

 150...001	 153...001	<ul style="list-style-type: none"> • Series 150 DIL Headers are equipped with .025" dia. pins (M-M# 0290). See page 173 for details. • Series 153 DIL Headers have 3-level wraposts (M-M# 5301). See page 184 for details. • Both series have .018" diameter solder tails which are pluggable into standard contacts. 	
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Total number of pins	 A B C .100 (TYP)			Quantity per tube	Ordering Information			
					Solder Tail		3 Level Wrapost	
10	0.5	0.2	0.3	40	150-XX-210-00-001		153-XX-210-00-001	
4	0.2	0.3	0.4	102	150-XX-304-00-001		153-XX-304-00-001	
6	0.3	0.3	0.4	67	150-XX-306-00-001		153-XX-306-00-001	
8	0.4	0.3	0.4	50	150-XX-308-00-001		153-XX-308-00-001	
10	0.5	0.3	0.4	40	150-XX-310-00-001		153-XX-310-00-001	
14	0.7	0.3	0.4	29	150-XX-314-00-001		153-XX-314-00-001	
16	0.8	0.3	0.4	25	150-XX-316-00-001		153-XX-316-00-001	
18	0.9	0.3	0.4	22	150-XX-318-00-001		153-XX-318-00-001	
20	1.0	0.3	0.4	20	150-XX-320-00-001		153-XX-320-00-001	
22	1.1	0.3	0.4	18	150-XX-322-00-001		153-XX-322-00-001	
24	1.2	0.3	0.4	16	150-XX-324-00-001		153-XX-324-00-001	
28	1.4	0.3	0.4	14	150-XX-328-00-001		153-XX-328-00-001	
20	1.0	0.4	0.5	20	150-XX-420-00-001		153-XX-420-00-001	
22	1.1	0.4	0.5	18	150-XX-422-00-001		153-XX-422-00-001	
24	1.2	0.4	0.5	16	150-XX-424-00-001		153-XX-424-00-001	
28	1.4	0.4	0.5	14	150-XX-428-00-001		153-XX-428-00-001	
32	1.6	0.4	0.5	12	150-XX-432-00-001		153-XX-432-00-001	
24	1.2	0.6	0.7	16	150-XX-624-00-001		153-XX-624-00-001	
28	1.4	0.6	0.7	14	150-XX-628-00-001		153-XX-628-00-001	
32	1.6	0.6	0.7	12	150-XX-632-00-001		153-XX-632-00-001	
36	1.8	0.6	0.7	11	150-XX-636-00-001		153-XX-636-00-001	
40	2.0	0.6	0.7	10	150-XX-640-00-001		153-XX-640-00-001	
42	2.1	0.6	0.7	9	150-XX-642-00-001		153-XX-642-00-001	
48	2.4	0.6	0.7	8	150-XX-648-00-001		153-XX-648-00-001	
50	2.5	0.6	0.7	8	150-XX-650-00-001		153-XX-650-00-001	
52	2.6	0.6	0.7	7	150-XX-652-00-001		153-XX-652-00-001	
50	2.5	0.9	1.0	8	150-XX-950-00-001		153-XX-950-00-001	
52	2.6	0.9	1.0	7	150-XX-952-00-001		153-XX-952-00-001	
64	3.2	0.9	1.0	6	150-XX-964-00-001		153-XX-964-00-001	
SPECIFY PLATING CODE XX=					10	90		
Pin Plating					10μ" Au	200μ" Sn/Pb		

*XX= Plating Code
See Below*

*For High
Temperature
Insulators
Add '100'
To End Of
Part Numbers*



DUAL-IN-LINE SLOTTED HEADERS
Solder Tail and Wrapost
Open Frame

Series 160, 162, 163

 160...001 162/163...001	<ul style="list-style-type: none"> • Series 160, 162, 163 DIL Headers are equipped with slotted heads to accept wires or component leads. • Terminations are pluggable .018" diameter solder tails (M-M# 0282), see page 174 for details; or two-level wraposts, (M-M# 1106) see page 185 for details. 	
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Total number of pins	Pinout Diagram			Quantity per tube	Ordering Information			
					A	B	C	Solder Tail
10	0.5	0.2	0.3	41	160-XX-210-00-001	162-XX-210-00-001		163-XX-210-00-001
4	0.2	0.3	0.4	102	160-XX-304-00-001	162-XX-304-00-001		163-XX-304-00-001
6	0.3	0.3	0.4	67	160-XX-306-00-001	162-XX-306-00-001		163-XX-306-00-001
8	0.4	0.3	0.4	50	160-XX-308-00-001	162-XX-308-00-001		163-XX-308-00-001
10	0.5	0.3	0.4	40	160-XX-310-00-001	162-XX-310-00-001		163-XX-310-00-001
14	0.7	0.3	0.4	28	160-XX-314-00-001	162-XX-314-00-001		163-XX-314-00-001
16	0.8	0.3	0.4	25	160-XX-316-00-001	162-XX-316-00-001		163-XX-316-00-001
18	0.9	0.3	0.4	22	160-XX-318-00-001	162-XX-318-00-001		163-XX-318-00-001
20	1.0	0.3	0.4	20	160-XX-320-00-001	162-XX-320-00-001		163-XX-320-00-001
22	1.0	0.3	0.4	18	160-XX-322-00-001	162-XX-322-00-001		163-XX-322-00-001
24	1.2	0.3	0.4	16	160-XX-324-00-001	162-XX-324-00-001		163-XX-324-00-001
28	1.4	0.3	0.4	14	160-XX-328-00-001	162-XX-328-00-001		163-XX-328-00-001
20	1.0	0.4	0.5	20	160-XX-420-00-001	162-XX-420-00-001		163-XX-420-00-001
22	1.1	0.4	0.5	18	160-XX-422-00-001	162-XX-422-00-001		163-XX-422-00-001
24	1.2	0.4	0.5	16	160-XX-424-00-001	162-XX-424-00-001		163-XX-424-00-001
28	1.4	0.4	0.5	14	160-XX-428-00-001	162-XX-428-00-001		163-XX-428-00-001
32	1.6	0.4	0.5	12	160-XX-432-00-001	162-XX-432-00-001		163-XX-432-00-001
24	1.2	0.6	0.7	16	160-XX-624-00-001	162-XX-624-00-001		163-XX-624-00-001
28	1.4	0.6	0.7	14	160-XX-628-00-001	162-XX-628-00-001		163-XX-628-00-001
32	1.6	0.6	0.7	12	160-XX-632-00-001	162-XX-632-00-001		163-XX-632-00-001
36	1.8	0.6	0.7	11	160-XX-636-00-001	162-XX-636-00-001		163-XX-636-00-001
40	2.0	0.6	0.7	10	160-XX-640-00-001	162-XX-640-00-001		163-XX-640-00-001
42	2.1	0.6	0.7	9	160-XX-642-00-001	162-XX-642-00-001		163-XX-642-00-001
48	2.4	0.6	0.7	8	160-XX-648-00-001	162-XX-648-00-001		163-XX-648-00-001
50	2.5	0.6	0.7	8	160-XX-650-00-001	162-XX-650-00-001		163-XX-650-00-001
52	2.6	0.6	0.7	7	160-XX-652-00-001	162-XX-652-00-001		163-XX-652-00-001
50	2.5	0.9	1.0	8	160-XX-950-00-001	162-XX-950-00-001		163-XX-950-00-001
52	2.6	0.9	1.0	7	160-XX-952-00-001	162-XX-952-00-001		163-XX-952-00-001
64	3.2	0.9	1.0	6	160-XX-964-00-001	162-XX-964-00-001		163-XX-964-00-001
SPECIFY PLATING CODE XX=					10	90		
Pin Plating					10μ" Au	200μ" Sn/Pb		



DUAL-IN-LINE TURRET HEADERS
Solder Tail and Wrapost
Open Frame

Series 170, 173

 170...001 173...001				<ul style="list-style-type: none"> • Series 170, 173 DIL Headers are equipped with turret heads for wiring applications. • Terminations are pluggable .020" diameter solder tails (M-M# 0700) see page 174 for details; or 3-level wraposts (M-M# 0730) see page 185 for details. 			
Total number of pins	 A B C .100 (TYP)			Quantity per tube	Ordering Information		
					Solder Tail		3 Level Wrapost
10	0.5	0.2	0.3	41	170-XX-210-00-001	173-XX-210-00-001	
4	0.2	0.3	0.4	102	170-XX-304-00-001	173-XX-304-00-001	
6	0.3	0.3	0.4	67	170-XX-306-00-001	173-XX-306-00-001	
8	0.4	0.3	0.4	50	170-XX-308-00-001	173-XX-308-00-001	
10	0.5	0.3	0.4	40	170-XX-310-00-001	173-XX-310-00-001	
14	0.7	0.3	0.4	28	170-XX-314-00-001	173-XX-314-00-001	
16	0.8	0.3	0.4	25	170-XX-316-00-001	173-XX-316-00-001	
18	0.9	0.3	0.4	22	170-XX-318-00-001	173-XX-318-00-001	
20	1.0	0.3	0.4	20	170-XX-320-00-001	173-XX-320-00-001	
22	1.1	0.3	0.4	18	170-XX-322-00-001	173-XX-322-00-001	
24	1.2	0.3	0.4	16	170-XX-324-00-001	173-XX-324-00-001	
28	1.4	0.3	0.4	14	170-XX-328-00-001	173-XX-328-00-001	
20	1.0	0.4	0.5	20	170-XX-420-00-001	173-XX-420-00-001	
22	1.1	0.4	0.5	18	170-XX-422-00-001	173-XX-422-00-001	
24	1.2	0.4	0.5	16	170-XX-424-00-001	173-XX-424-00-001	
28	1.4	0.4	0.5	14	170-XX-428-00-001	173-XX-428-00-001	
32	1.6	0.4	0.5	12	170-XX-432-00-001	173-XX-432-00-001	
24	1.2	0.6	0.7	16	170-XX-624-00-001	173-XX-624-00-001	
28	1.4	0.6	0.7	14	170-XX-628-00-001	173-XX-628-00-001	
32	1.6	0.6	0.7	12	170-XX-632-00-001	173-XX-632-00-001	
36	1.8	0.6	0.7	11	170-XX-636-00-001	173-XX-636-00-001	
40	2.0	0.6	0.7	10	170-XX-640-00-001	173-XX-640-00-001	
42	2.1	0.6	0.7	9	170-XX-642-00-001	173-XX-642-00-001	
48	2.4	0.6	0.7	8	170-XX-648-00-001	173-XX-648-00-001	
50	2.5	0.6	0.7	8	170-XX-650-00-001	173-XX-650-00-001	
52	2.6	0.6	0.7	7	170-XX-652-00-001	173-XX-652-00-001	
50	2.5	0.9	1.0	8	170-XX-950-00-001	173-XX-950-00-001	
52	2.6	0.9	1.0	7	170-XX-952-00-001	173-XX-952-00-001	
64	3.2	0.9	1.0	6	170-XX-964-00-001	173-XX-964-00-001	
SPECIFY PLATING CODE XX=					10	90	
Pin Plating					10μ" Au	200μ" Sn/Pb	

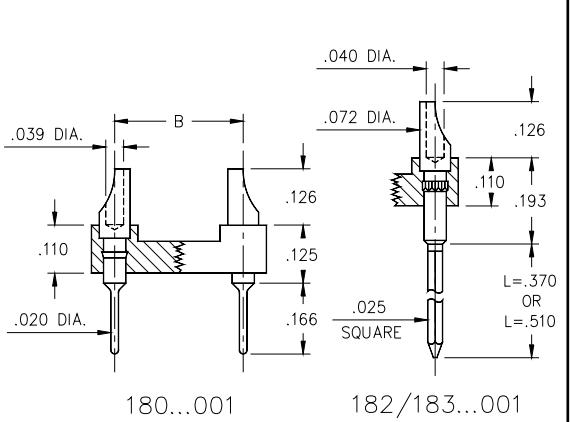
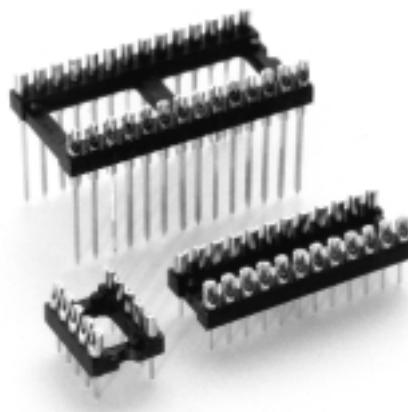
**XX= Plating Code
See Below**

**For High
Temperature
Insulators
Add '100'
To End Of
Part Numbers**



DUAL-IN-LINE SOLDER CUP HEADERS
Solder Tail and Wrapost
Open Frame

Series 180, 182, 183

						<ul style="list-style-type: none"> • Series 180, 182, 183 DIL Headers are equipped with solder cups for wiring applications. • Terminations are pluggable .020" diameter solder tails (M-M# 8000), see page 174 for details; or 2 & 3-level wraposts, (M-M# 8301) see page 184 for details. 		
Ordering Information								
Total number of pins	A	B	C	Quantity per tube	Solder Tail	2 Level Wrapost L = .370	3 Level Wrapost L = .510	
10	0.5	0.2	0.3	41	180-XX-210-00-001	182-XX-210-00-001	183-XX-210-00-001	
4	0.2	0.3	0.4	102	180-XX-304-00-001	182-XX-304-00-001	183-XX-304-00-001	
6	0.3	0.3	0.4	67	180-XX-306-00-001	182-XX-306-00-001	183-XX-306-00-001	
8	0.4	0.3	0.4	50	180-XX-308-00-001	182-XX-308-00-001	183-XX-308-00-001	
10	0.5	0.3	0.4	40	180-XX-310-00-001	182-XX-310-00-001	183-XX-310-00-001	
14	0.7	0.3	0.4	28	180-XX-314-00-001	182-XX-314-00-001	183-XX-314-00-001	
16	0.8	0.3	0.4	25	180-XX-316-00-001	182-XX-316-00-001	183-XX-316-00-001	
18	0.9	0.3	0.4	22	180-XX-318-00-001	182-XX-318-00-001	183-XX-318-00-001	
20	1.0	0.3	0.4	20	180-XX-320-00-001	182-XX-320-00-001	183-XX-320-00-001	
22	1.1	0.3	0.4	18	180-XX-322-00-001	182-XX-322-00-001	183-XX-322-00-001	
24	1.2	0.3	0.4	16	180-XX-324-00-001	182-XX-324-00-001	183-XX-324-00-001	
28	1.4	0.3	0.4	14	180-XX-328-00-001	182-XX-328-00-001	183-XX-328-00-001	
20	1.0	0.4	0.5	20	180-XX-420-00-001	182-XX-420-00-001	183-XX-420-00-001	
22	1.1	0.4	0.5	18	180-XX-422-00-001	182-XX-422-00-001	183-XX-422-00-001	
24	1.2	0.4	0.5	16	180-XX-424-00-001	182-XX-424-00-001	183-XX-424-00-001	
28	1.4	0.4	0.5	14	180-XX-428-00-001	182-XX-428-00-001	183-XX-428-00-001	
32	1.6	0.4	0.5	12	180-XX-432-00-001	182-XX-432-00-001	183-XX-432-00-001	
24	1.2	0.6	0.7	16	180-XX-624-00-001	182-XX-624-00-001	183-XX-624-00-001	
28	1.4	0.6	0.7	14	180-XX-628-00-001	182-XX-628-00-001	183-XX-628-00-001	
32	1.6	0.6	0.7	12	180-XX-632-00-001	182-XX-632-00-001	183-XX-632-00-001	
36	1.8	0.6	0.7	11	180-XX-636-00-001	182-XX-636-00-001	183-XX-636-00-001	
40	2.0	0.6	0.7	10	180-XX-640-00-001	182-XX-640-00-001	183-XX-640-00-001	
42	2.1	0.6	0.7	9	180-XX-642-00-001	182-XX-642-00-001	183-XX-642-00-001	
48	2.4	0.6	0.7	8	180-XX-648-00-001	182-XX-648-00-001	183-XX-648-00-001	
50	2.5	0.6	0.7	8	180-XX-650-00-001	182-XX-650-00-001	183-XX-650-00-001	
52	2.6	0.6	0.7	7	180-XX-652-00-001	182-XX-652-00-001	183-XX-652-00-001	
50	2.5	0.9	1.0	8	180-XX-950-00-001	182-XX-950-00-001	183-XX-950-00-001	
52	2.6	0.9	1.0	7	180-XX-952-00-001	182-XX-952-00-001	183-XX-952-00-001	
64	3.2	0.9	1.0	6	180-XX-964-00-001	182-XX-964-00-001	183-XX-964-00-001	
SPECIFY PLATING CODE XX=						10	90	
Pin Plating						10 μ Au	200 μ Sn/Pb	



DUAL-IN-LINE PIN HEADERS

Series 151...003, 004, 005

Interconnect Open Frame

			<ul style="list-style-type: none"> Combine .025" dia. tails with pluggable .018" dia. solder tails. Series: 151...003 uses pin# 5503 151...004 uses pin# 5504 151...005 uses pin# 5505 For pin details see page 172. Pin material: Brass alloy 360 1/2 hard. 				
Total number of pins			Quantity per tube	Ordering Information			
	A	B		L = .252	L = .331	L = .606	
10	0.5	0.2	0.3	41	151-XX-210-00-003	151-XX-210-00-004	151-XX-210-00-005
4	0.2	0.3	0.4	102	151-XX-304-00-003	151-XX-304-00-004	151-XX-304-00-005
6	0.3	0.3	0.4	67	151-XX-306-00-003	151-XX-306-00-004	151-XX-306-00-005
8	0.4	0.3	0.4	50	151-XX-308-00-003	151-XX-308-00-004	151-XX-308-00-005
10	0.5	0.3	0.4	40	151-XX-310-00-003	151-XX-310-00-004	151-XX-310-00-005
14	0.7	0.3	0.4	28	151-XX-314-00-003	151-XX-314-00-004	151-XX-314-00-005
16	0.8	0.3	0.4	25	151-XX-316-00-003	151-XX-316-00-004	151-XX-316-00-005
18	0.9	0.3	0.4	22	151-XX-318-00-003	151-XX-318-00-004	151-XX-318-00-005
20	1.0	0.3	0.4	20	151-XX-320-00-003	151-XX-320-00-004	151-XX-320-00-005
22	1.1	0.3	0.4	18	151-XX-322-00-003	151-XX-322-00-004	151-XX-322-00-005
24	1.2	0.3	0.4	16	151-XX-324-00-003	151-XX-324-00-004	151-XX-324-00-005
28	1.4	0.3	0.4	14	151-XX-328-00-003	151-XX-328-00-004	151-XX-328-00-005
20	1.0	0.4	0.5	20	151-XX-420-00-003	151-XX-420-00-004	151-XX-420-00-005
22	1.1	0.4	0.5	18	151-XX-422-00-003	151-XX-422-00-004	151-XX-422-00-005
24	1.2	0.4	0.5	16	151-XX-424-00-003	151-XX-424-00-004	151-XX-424-00-005
28	1.4	0.4	0.5	14	151-XX-428-00-003	151-XX-428-00-004	151-XX-428-00-005
32	1.6	0.4	0.5	12	151-XX-432-00-003	151-XX-432-00-004	151-XX-432-00-005
24	1.2	0.6	0.7	16	151-XX-624-00-003	151-XX-624-00-004	151-XX-624-00-005
28	1.4	0.6	0.7	14	151-XX-628-00-003	151-XX-628-00-004	151-XX-628-00-005
32	1.6	0.6	0.7	12	151-XX-632-00-003	151-XX-632-00-004	151-XX-632-00-005
36	1.8	0.6	0.7	11	151-XX-636-00-003	151-XX-636-00-004	151-XX-636-00-005
40	2.0	0.6	0.7	10	151-XX-640-00-003	151-XX-640-00-004	151-XX-640-00-005
42	2.1	0.6	0.7	9	151-XX-642-00-003	151-XX-642-00-004	151-XX-642-00-005
48	2.4	0.6	0.7	8	151-XX-648-00-003	151-XX-648-00-004	151-XX-648-00-005
50	2.5	0.6	0.7	8	151-XX-650-00-003	151-XX-650-00-004	151-XX-650-00-005
52	2.6	0.6	0.7	7	151-XX-652-00-003	151-XX-652-00-004	151-XX-652-00-005
50	2.5	0.9	1.0	8	151-XX-950-00-003	151-XX-950-00-004	151-XX-950-00-005
52	2.6	0.9	1.0	7	151-XX-952-00-003	151-XX-952-00-004	151-XX-952-00-005
64	3.2	0.9	1.0	6	151-XX-964-00-003	151-XX-964-00-004	151-XX-964-00-005
SPECIFY PLATING CODE XX=				10	90		
Pin Plating				10μ" Au	200μ" Sn/Pb		



DUAL-IN-LINE PIN HEADERS

Series 151...009, 010, 011

Interconnect
Open Frame

	<ul style="list-style-type: none"> Using .018" dia. tails at both ends make this header entirely pluggable. Series: 151...009 uses pin# 5509 151...010 uses pin# 5510 151...011 uses pin# 5511 For pin details see page 170 & 172. Pin material: Brass alloy 360 1/2 hard. 	
151...009	151...0XX	

Total number of pins	Pinout diagram:			Quantity per tube	Ordering Information					
					A	B	C	L = .252	L = .331	L = .606
10	0.5	0.2	0.3	41	151-XX-210-00-009	151-XX-210-00-010		151-XX-210-00-011		
4	0.2	0.3	0.4	102	151-XX-304-00-009	151-XX-304-00-010		151-XX-304-00-011		
6	0.3	0.3	0.4	67	151-XX-306-00-009	151-XX-306-00-010		151-XX-306-00-011		
8	0.4	0.3	0.4	50	151-XX-308-00-009	151-XX-308-00-010		151-XX-308-00-011		
10	0.5	0.3	0.4	40	151-XX-310-00-009	151-XX-310-00-010		151-XX-310-00-011		
14	0.7	0.3	0.4	28	151-XX-314-00-009	151-XX-314-00-010		151-XX-314-00-011		
16	0.8	0.3	0.4	25	151-XX-316-00-009	151-XX-316-00-010		151-XX-316-00-011		
18	0.9	0.3	0.4	22	151-XX-318-00-009	151-XX-318-00-010		151-XX-318-00-011		
20	1.0	0.3	0.4	20	151-XX-320-00-009	151-XX-320-00-010		151-XX-320-00-011		
22	1.1	0.3	0.4	18	151-XX-322-00-009	151-XX-322-00-010		151-XX-322-00-011		
24	1.2	0.3	0.4	16	151-XX-324-00-009	151-XX-324-00-010		151-XX-324-00-011		
28	1.4	0.3	0.4	14	151-XX-328-00-009	151-XX-328-00-010		151-XX-328-00-011		
20	1.0	0.4	0.5	20	151-XX-420-00-009	151-XX-420-00-010		151-XX-420-00-011		
22	1.1	0.4	0.5	18	151-XX-422-00-009	151-XX-422-00-010		151-XX-422-00-011		
24	1.2	0.4	0.5	16	151-XX-424-00-009	151-XX-424-00-010		151-XX-424-00-011		
28	1.4	0.4	0.5	14	151-XX-428-00-009	151-XX-428-00-010		151-XX-428-00-011		
32	1.6	0.4	0.5	12	151-XX-432-00-009	151-XX-432-00-010		151-XX-432-00-011		
24	1.2	0.6	0.7	16	151-XX-624-00-009	151-XX-624-00-010		151-XX-624-00-011		
28	1.4	0.6	0.7	14	151-XX-628-00-009	151-XX-628-00-010		151-XX-628-00-011		
32	1.6	0.6	0.7	12	151-XX-632-00-009	151-XX-632-00-010		151-XX-632-00-011		
36	1.8	0.6	0.7	11	151-XX-636-00-009	151-XX-636-00-010		151-XX-636-00-011		
40	2.0	0.6	0.7	10	151-XX-640-00-009	151-XX-640-00-010		151-XX-640-00-011		
42	2.1	0.6	0.7	9	151-XX-642-00-009	151-XX-642-00-010		151-XX-642-00-011		
48	2.4	0.6	0.7	8	151-XX-648-00-009	151-XX-648-00-010		151-XX-648-00-011		
50	2.5	0.6	0.7	8	151-XX-650-00-009	151-XX-650-00-010		151-XX-650-00-011		
52	2.6	0.6	0.7	7	151-XX-652-00-009	151-XX-652-00-010		151-XX-652-00-011		
50	2.5	0.9	1.0	8	151-XX-950-00-009	151-XX-950-00-010		151-XX-950-00-011		
52	2.6	0.9	1.0	7	151-XX-952-00-009	151-XX-952-00-010		151-XX-952-00-011		
64	3.2	0.9	1.0	6	151-XX-964-00-009	151-XX-964-00-010		151-XX-964-00-011		
				SPECIFY PLATING CODE XX=	10	90				
				Pin Plating		10μ" Au	200μ" Sn/Pb			



DUAL-IN-LINE PIN HEADERS
Interconnect
Open Frame

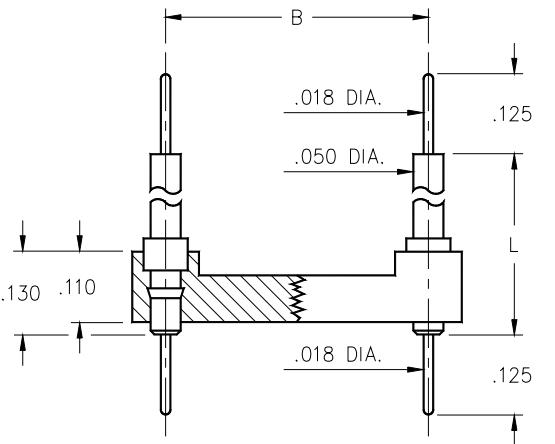
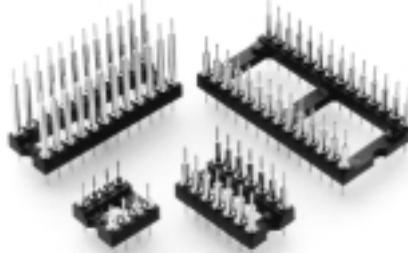
Series 134

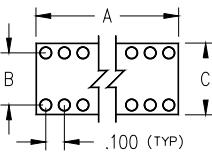
			<ul style="list-style-type: none"> • Series 134 DIL Headers combine .030" pins with pluggable .020" solder tails (M-M#3402, 3401, 3405, 3400 or 3410). See page 173 for details. • Used to interconnect PC boards with spacings of .190", .236", .315", .605" or 1.070". 																	
Ordering Information																				
Total number of pins	A	B	C	Quantity per tube	L = .190	L = .236	L = .315	L = .605	L = 1.070											
10	0.5	0.2	0.3	41	134-XX-210-00-020	134-XX-210-00-010	134-XX-210-00-050	134-XX-210-00-000	134-XX-210-00-100											
4	0.2	0.3	0.4	102	134-XX-304-00-020	134-XX-304-00-010	134-XX-304-00-050	134-XX-304-00-000	134-XX-304-00-100											
6	0.3	0.3	0.4	67	134-XX-306-00-020	134-XX-306-00-010	134-XX-306-00-050	134-XX-306-00-000	134-XX-306-00-100											
8	0.4	0.3	0.4	50	134-XX-308-00-020	134-XX-308-00-010	134-XX-308-00-050	134-XX-308-00-000	134-XX-308-00-100											
10	0.5	0.3	0.4	40	134-XX-310-00-020	134-XX-310-00-010	134-XX-310-00-050	134-XX-310-00-000	134-XX-310-00-100											
14	0.7	0.3	0.4	28	134-XX-314-00-020	134-XX-314-00-010	134-XX-314-00-050	134-XX-314-00-000	134-XX-314-00-100											
16	0.8	0.3	0.4	25	134-XX-316-00-020	134-XX-316-00-010	134-XX-316-00-050	134-XX-316-00-000	134-XX-316-00-100											
18	0.9	0.3	0.4	22	134-XX-318-00-020	134-XX-318-00-010	134-XX-318-00-050	134-XX-318-00-000	134-XX-318-00-100											
20	1.0	0.3	0.4	20	134-XX-320-00-020	134-XX-320-00-010	134-XX-320-00-050	134-XX-320-00-000	134-XX-320-00-100											
22	1.1	0.3	0.4	18	134-XX-322-00-020	134-XX-322-00-010	134-XX-322-00-050	134-XX-322-00-000	134-XX-322-00-100											
24	1.2	0.3	0.4	16	134-XX-324-00-020	134-XX-324-00-010	134-XX-324-00-050	134-XX-324-00-000	134-XX-324-00-100											
28	1.4	0.3	0.4	14	134-XX-328-00-020	134-XX-328-00-010	134-XX-328-00-050	134-XX-328-00-000	134-XX-328-00-100											
20	1.0	0.4	0.5	20	134-XX-420-00-020	134-XX-420-00-010	134-XX-420-00-050	134-XX-420-00-000	134-XX-420-00-100											
22	1.1	0.4	0.5	18	134-XX-422-00-020	134-XX-422-00-010	134-XX-422-00-050	134-XX-422-00-000	134-XX-422-00-100											
24	1.2	0.4	0.5	16	134-XX-424-00-020	134-XX-424-00-010	134-XX-424-00-050	134-XX-424-00-000	134-XX-424-00-100											
28	1.4	0.4	0.5	14	134-XX-428-00-020	134-XX-428-00-010	134-XX-428-00-050	134-XX-428-00-000	134-XX-428-00-100											
32	1.6	0.4	0.5	12	134-XX-432-00-020	134-XX-432-00-010	134-XX-432-00-050	134-XX-432-00-000	134-XX-432-00-100											
24	1.2	0.6	0.7	16	134-XX-624-00-020	134-XX-624-00-010	134-XX-624-00-050	134-XX-624-00-000	134-XX-624-00-100											
28	1.4	0.6	0.7	14	134-XX-628-00-020	134-XX-628-00-010	134-XX-628-00-050	134-XX-628-00-000	134-XX-628-00-100											
32	1.6	0.6	0.7	12	134-XX-632-00-020	134-XX-632-00-010	134-XX-632-00-050	134-XX-632-00-000	134-XX-632-00-100											
36	1.8	0.6	0.7	11	134-XX-636-00-020	134-XX-636-00-010	134-XX-636-00-050	134-XX-636-00-000	134-XX-636-00-100											
40	2.0	0.6	0.7	10	134-XX-640-00-020	134-XX-640-00-010	134-XX-640-00-050	134-XX-640-00-000	134-XX-640-00-100											
42	2.1	0.6	0.7	9	134-XX-642-00-020	134-XX-642-00-010	134-XX-642-00-050	134-XX-642-00-000	134-XX-642-00-100											
48	2.4	0.6	0.7	8	134-XX-648-00-020	134-XX-648-00-010	134-XX-648-00-050	134-XX-648-00-000	134-XX-648-00-100											
50	2.5	0.6	0.7	8	134-XX-650-00-020	134-XX-650-00-010	134-XX-650-00-050	134-XX-650-00-000	134-XX-650-00-100											
52	2.6	0.6	0.7	7	134-XX-652-00-020	134-XX-652-00-010	134-XX-652-00-050	134-XX-652-00-000	134-XX-652-00-100											
50	2.5	0.9	1.0	8	134-XX-950-00-020	134-XX-950-00-010	134-XX-950-00-050	134-XX-950-00-000	134-XX-950-00-100											
52	2.6	0.9	1.0	7	134-XX-952-00-020	134-XX-952-00-010	134-XX-952-00-050	134-XX-952-00-000	134-XX-952-00-100											
64	3.2	0.9	1.0	6	134-XX-964-00-020	134-XX-964-00-010	134-XX-964-00-050	134-XX-964-00-000	134-XX-964-00-100											
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">SPECIFY PLATING CODE XX=</td> <td style="text-align: center;">10</td> <td style="text-align: center;">90</td> <td colspan="3"></td> </tr> <tr> <td style="text-align: center;">Pin Plating</td> <td style="text-align: center;">—○—</td> <td style="text-align: center;">10μ" Au</td> <td style="text-align: center;">200μ" Sn/Pb</td> <td colspan="3"></td> </tr> </table>							SPECIFY PLATING CODE XX=		10	90				Pin Plating	—○—	10μ" Au	200μ" Sn/Pb			
SPECIFY PLATING CODE XX=		10	90																	
Pin Plating	—○—	10μ" Au	200μ" Sn/Pb																	



DUAL-IN-LINE HEADERS
Interconnect
Open Frame

Series 142

	<ul style="list-style-type: none"> • Series 142 Pin Headers have double ended .018" diameter pluggable solder tails. • Used to interconnect PC Boards with spacings of .210", .335", .585" or .835". (MM# 4259-1, -2, -3 or -4 pin). See page 170 for details. 	
---	--	---

Total number of pins				Quantity per tube	Ordering Information			
	A	B	C		L=.210	L=.335	L=.585	L=.835
6	0.3	0.3	0.4	67	142-XX-306-00-591	142-XX-306-00-592	142-XX-306-00-593	142-XX-306-00-594
8	0.4	0.3	0.4	50	142-XX-308-00-591	142-XX-308-00-592	142-XX-308-00-593	142-XX-308-00-594
14	0.7	0.3	0.4	29	142-XX-314-00-591	142-XX-314-00-592	142-XX-314-00-593	142-XX-314-00-594
16	0.8	0.3	0.4	25	142-XX-316-00-591	142-XX-316-00-592	142-XX-316-00-593	142-XX-316-00-594
18	0.9	0.3	0.4	22	142-XX-318-00-591	142-XX-318-00-592	142-XX-318-00-593	142-XX-318-00-594
20	1.0	0.3	0.4	40	142-XX-320-00-591	142-XX-320-00-592	142-XX-320-00-593	142-XX-320-00-594
24	1.2	0.3	0.4	17	142-XX-324-00-591	142-XX-324-00-592	142-XX-324-00-593	142-XX-324-00-594
22	1.1	0.4	0.5	14	142-XX-422-00-591	142-XX-422-00-592	142-XX-422-00-593	142-XX-422-00-594
24	1.2	0.6	0.7	16	142-XX-624-00-591	142-XX-624-00-592	142-XX-624-00-593	142-XX-624-00-594
28	1.4	0.6	0.7	14	142-XX-628-00-591	142-XX-628-00-592	142-XX-628-00-593	142-XX-628-00-594
32	1.6	0.6	0.7	12	142-XX-632-00-591	142-XX-632-00-592	142-XX-632-00-593	142-XX-632-00-594
40	2.0	0.6	0.7	10	142-XX-640-00-591	142-XX-640-00-592	142-XX-640-00-593	142-XX-640-00-594

**XX= Plating Code
See Below**

**For High
Temperature
Insulators
Add '100'
To End Of
Part Numbers**

SPECIFY PLATING CODE XX=	10	90		
Pin Plating	10μ" Au	200μ" Sn/Pb		



SIP SOCKETS, CARRIERS AND HEADERS QUICK SELECTOR CHART

USE THIS CONVENIENT CHART TO SELECT THE RIGHT SIP SOCKET FOR YOUR APPLICATION.

- 1) Determine the style of pin needed to meet your requirement.
- 2) Select the appropriate insulator frame.
- 3) Turn to indicated page for detail and ordering information.
- 4) For custom assembly in a selected insulator, contact our applications engineers.

SIP SOCKETS AND CARRIERS

SELECT PIN →											
SELECT INSULATOR ↓											
TURN TO PAGE # →											
											Socket Carriers
		SINGLE ROW (SIP) STRIP	46 46 46 46 48 49 50 47 56 57 58								
		DOUBLE ROW STRIP	51 51 51 51 55 53 54 52 56 57 58								

SIP HEADERS

SELECT PIN →						
SELECT INSULATOR ↓						
TURN TO PAGE # →						
		SINGLE ROW (SIP) STRIP	59 62	60	61	62
		DOUBLE ROW STRIP	64 66	N/A	66 67	64 65

For Shrink DIP Sockets (on .070" grid), see page 87.

For Technical Specifications, see page 4.



SINGLE-IN-LINE SOCKETS
Solder Tail
Single Row

Series 310, 311, 315

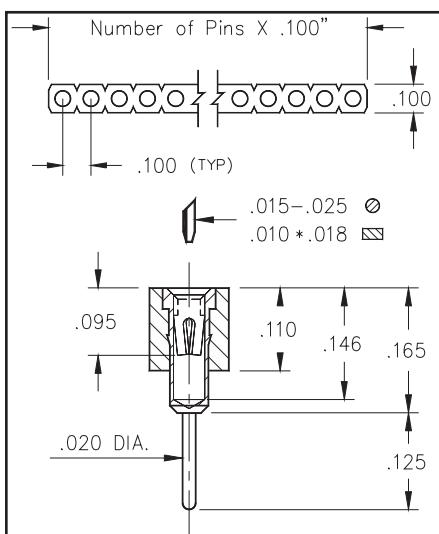


Fig. 1

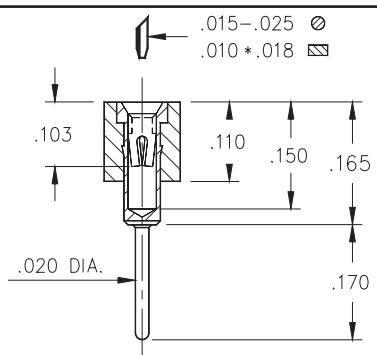


Fig. 2

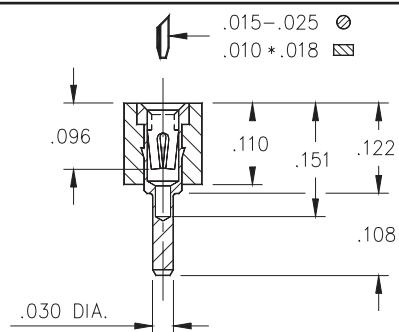


Fig. 3

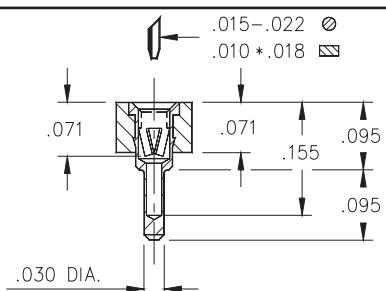


Fig. 4

- SIP sockets accept .015 - .025" diameter pins and standard IC leads.
- Various solder tails available: standard length, long for multi-layer boards, very low and ultra low profile. See Mill-Max #1001, 0134, 0501 or 0703 pins (pages 130, 131, 134) for details.
- Hi-Rel, 4-finger BeCu #12 & #30 clips rated at 3 amps. See pages 207 & 208 for details.



Ordering Information

Fig. 1 Series 310...001 Standard Solder Tail

310-XX-1_-41-001

Specify # of pins → 01-64

Fig. 2 Series 311...001 Long Solder Tail

311-XX-1_-41-001

Specify # of pins → 01-64

Fig. 3 Series 315...001 Very Low Profile

315-XX-1_-41-001

Specify # of pins → 01-64

Fig. 4 Series 315...003 Ultra Low Profile

315-XX-1_-41-003

Specify # of pins → 01-64

**XX= Plating Code
See Below**

**For High
Temperature
Insulators
Add '100'
To End Of
Part Numbers**

SPECIFY PLATING CODE XX=	13	91	93	99
Sleeve (Pin)	10μ" Au	200μ" Sn/Pb	200μ" Sn/Pb	200μ" Sn/Pb
Contact (Clip)	30μ" Au	10μ" Au	30μ" Au	200μ" Sn/Pb



SINGLE-IN-LINE SOCKETS

Elevated Single Row

Series 316

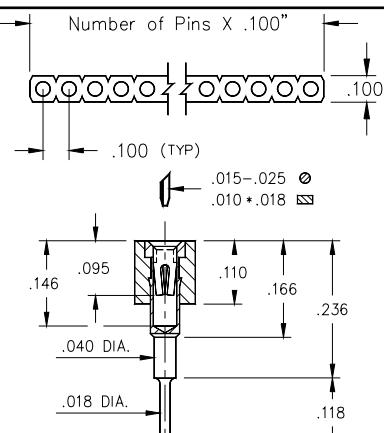


Fig. 1

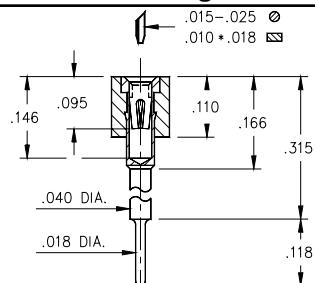


Fig. 2

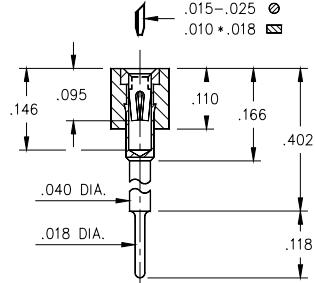


Fig. 3

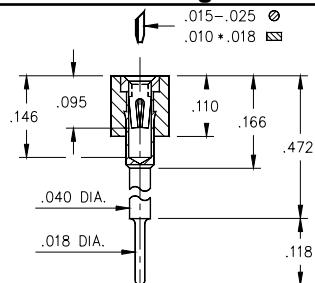


Fig. 4

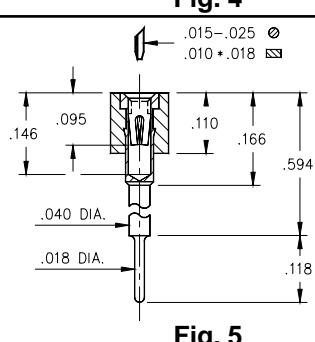


Fig. 5

- Elevated socket strips are available in 5 different heights.

316...006 uses pin # 0153-1

316...003 uses pin # 0153-2

316...007 uses pin # 0153-3

316...008 uses pin # 0153-4

316...001 uses pin # 0153-5

- Hi-Rel, 4-finger BeCu #30 clip rated at 3 amps. See page 208 for details.



Ordering Information

Series 316...006 Standoff Height = .236

Fig. 1

316-XX-1_-41-006

Specify # of pins

01-64

Series 316...003 Standoff Height = .315

Fig. 2

316-XX-1_-41-003

Specify # of pins

01-64

Series 316...007 Standoff Height = .402

Fig. 3

316-XX-1_-41-007

Specify # of pins

01-64

Series 316...008 Standoff Height = .472

Fig. 4

316-XX-1_-41-008

Specify # of pins

01-64

Series 316...001 Standoff Height = .594

Fig. 5

316-XX-1_-41-001

Specify # of pins

01-64

**XX= Plating Code
See Below**
**For High Temperature
Insulators Add '100'
To End Of
Part Numbers**

SPECIFY PLATING CODE XX=

93

Sleeve (Pin)

200μ" Sn/Pb

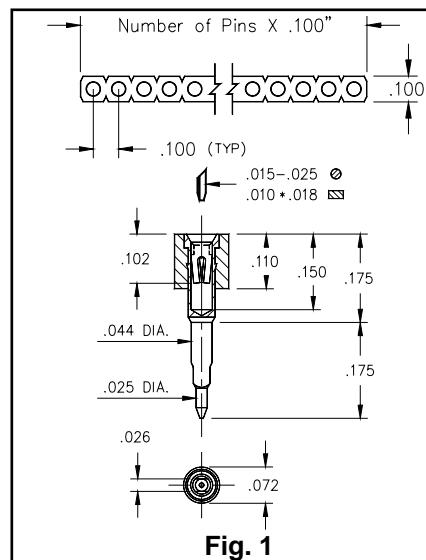
Contact (Clip)

30μ" Au



SINGLE-IN-LINE SOCKETS
Solderless Press-Fit
Single Row

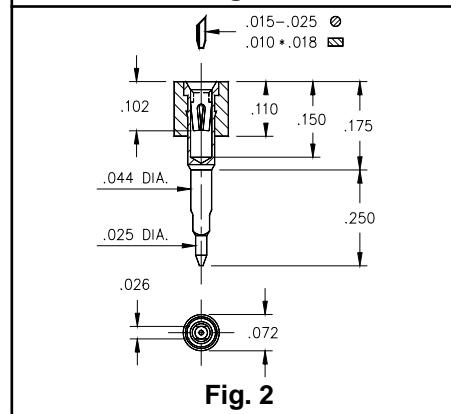
Series 304, 346



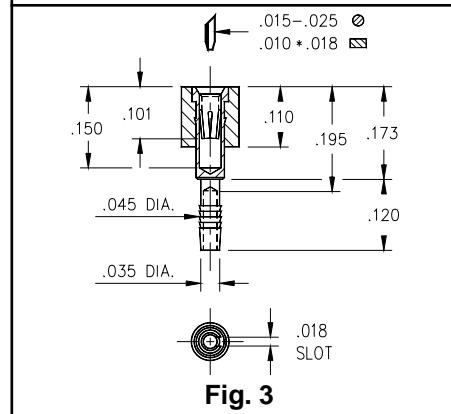
- Unique compliant tail pins conform to the plated thru-hole without stressing the inner layers of a multilayer board.
- Recommended plated thru-hole for 304 series: .036"- .041" use a 1.1mm drill prior to plating. Using M-M# 0477 & 0478 pins.
- For 346 series: .040"±.003" finished plated thru-hole. using M-M# 4612 & 4613 pins. Patent No. 4,799,904.
- Hi-Rel, 4-finger BeCu #30 clip rated at 3 amps. See page 208 for details.



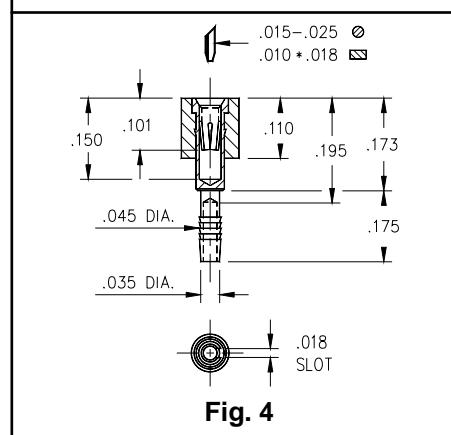
Ordering Information



Series 304...770 SOLDERLESS PRESS-FIT	
Fig. 1	(For .062" Thick Boards)
	304-13-1 _ -41-770 Specify # of pins → 01-64



Series 346...012 COMPLIANT SOLDERLESS PRESS-FIT	
Fig. 3	(For .060-.100" Thick Boards)
	346-XX-1 _ -41-012 Specify # of pins → 01-64



Series 346...013 COMPLIANT SOLDERLESS PRESS-FIT	
Fig. 4	(For .090-.130" Thick Boards)
	346-XX-1 _ -41-013 Specify # of pins → 01-64

**XX= Plating Code
See Below**

SPECIFY PLATING CODE XX=	13	93	99
Sleeve (Pin)	10µ" Au		200µ" Sn/Pb
Contact (Clip)	30µ" Au	30µ" Au	200µ" Sn/Pb



SINGLE-IN-LINE SOCKETS
Wrapost
Single Row

Series 321, 322
323, 324

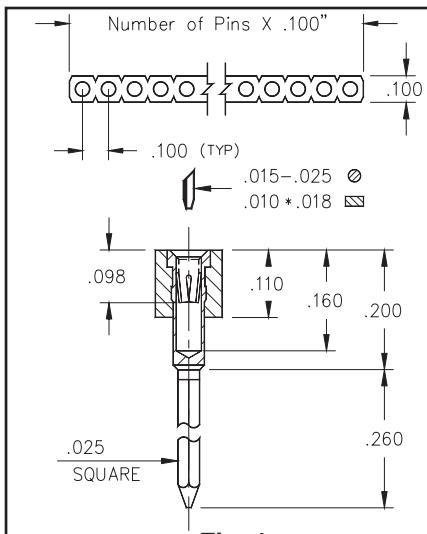
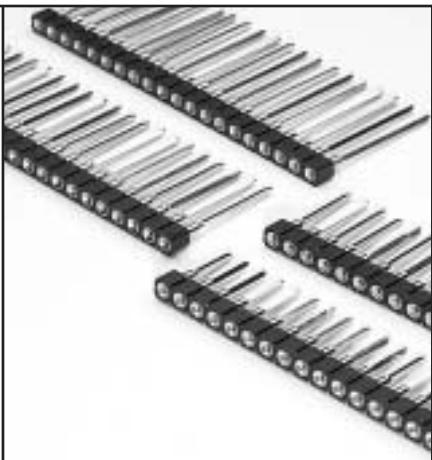


Fig. 1

- Wraposts available in 4 levels using M-M pin numbers:
 - 1-Level uses pin # 0040-1
 - 2-Level uses pin # 0089-2
 - 3-Level uses pin # 0088-3
 - 4-Level uses pin # 0086-4
- Hi-Rel, 4-finger BeCu #30 clip rated at 3 amps. See page 208 for details.



Ordering Information

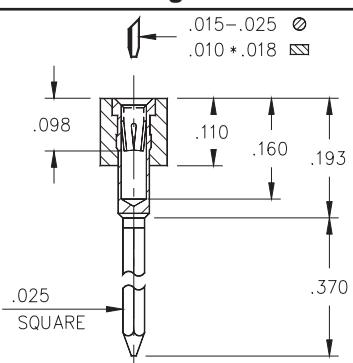


Fig. 2

Fig. 1	Series 321...001	1 Level Wrapost
	321-XX-1_ _ -41-001	Specify # of pins → 01-64

Fig. 2	Series 322...001	2 Level Wrapost
	322-XX-1_ _ -41-001	Specify # of pins → 01-64

Fig. 3	Series 323...001	3 Level Wrapost
	323-XX-1_ _ -41-001	Specify # of pins → 01-64

Fig. 4	Series 324...002	4 Level Wrapost
	324-XX-1_ _ -41-002	Specify # of pins → 01-64

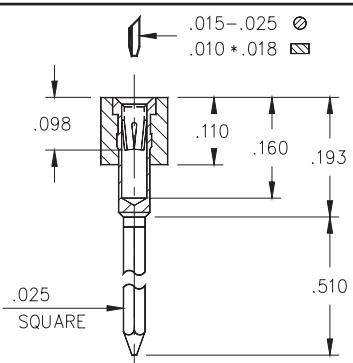


Fig. 3

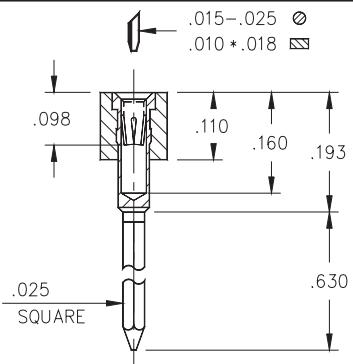


Fig. 4

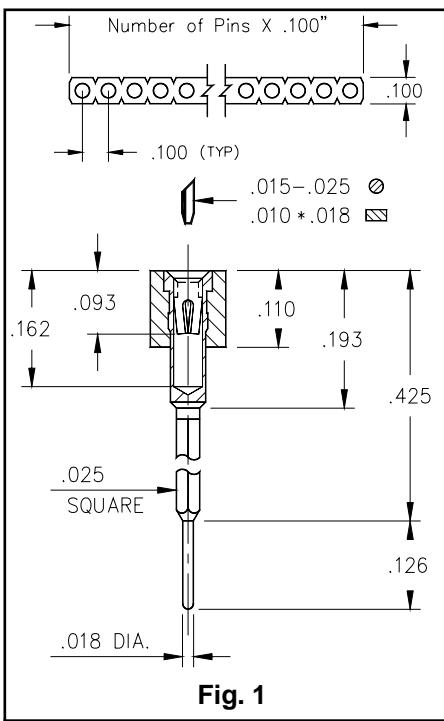
**XX= Plating Code
See Below**

SPECIFY PLATING CODE XX=	13	93	
Sleeve (Pin)	10µ" Au	200µ" Sn/Pb	
Contact (Clip)	30µ" Au	30µ" Au	



SINGLE-IN-LINE SOCKETS
Wrapost with Solder Tail
Single Row

Series 326



- Wrapost/solder tail combinations are available in 3 lengths using M-M pin numbers:
 - 326...001 uses pin # 2601
 - 326...002 uses pin # 2602
 - 326...003 uses pin # 2603
- Hi-Rel, 4-finger BeCu #30 clip rated at 3 amps. See page 208 for details.



Ordering Information

Fig. 1

Series 326...001

326-XX-1_ _-41-001

Specify # of pins

01-64

Fig. 2

Series 326...002

326-XX-1_ _-41-002

Specify # of pins

01-64

Fig. 3

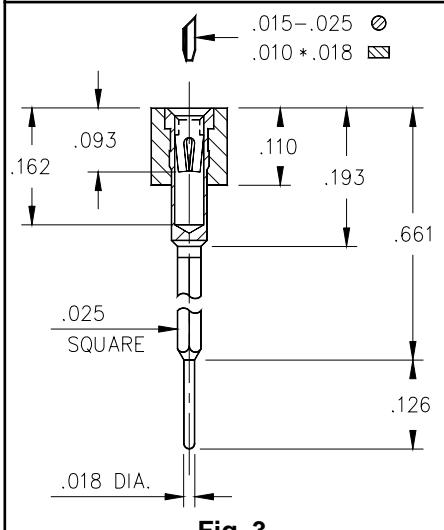
Series 326...003

326-XX-1_ _-41-003

Specify # of pins

01-64

**XX= Plating Code
See Below**



SPECIFY PLATING CODE XX=	13	93	
Sleeve (Pin)	10μ" Au		200μ" Sn/Pb
Contact (Clip)	30μ" Au		30μ" Au



SINGLE-IN-LINE SOCKETS

Solder Tail

Double Row

Series 410, 411, 415

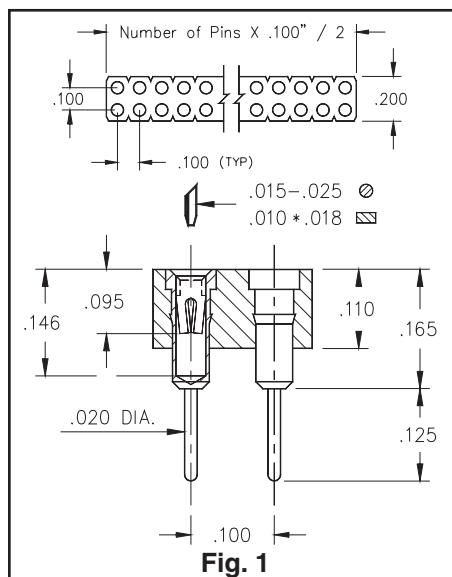


Fig. 1

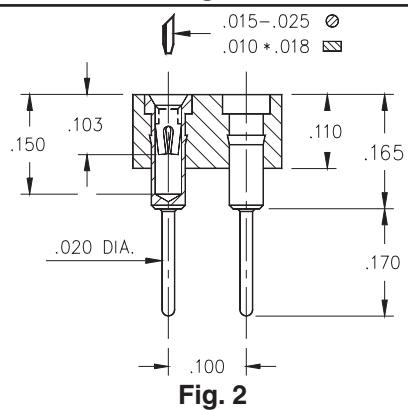


Fig. 2

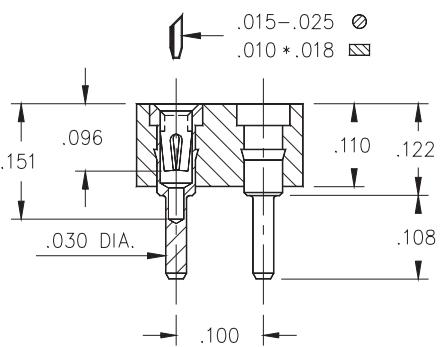


Fig. 3

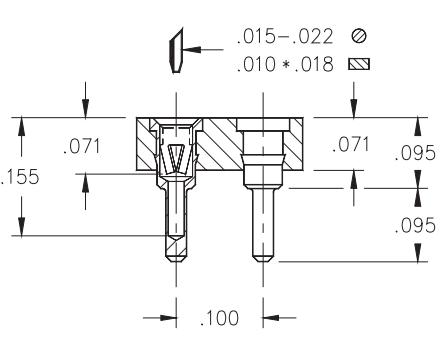


Fig. 4

- Series 41X double row strip sockets are on .100" grid.
 - Various solder pins available (standard, long for multi-layer boards, very low and ultra low). Using Mill-Max pin #'s 1001, 0134, 0501 & 0703.
 - Hi-Rel, 4-finger BeCu #30 & #12 clips are rated at 3 amps. See pages 207 & 208 for details.



Ordering Information

Fig. 1	Series 410...001	Standard Solder Tail
	410-XX-2_ _ -41-001	
Fig. 2	Specify # of pins	02-64
	Series 411...001	Long Solder Tail
Fig. 3	411-XX-2_ _ -41-001	
	Specify # of pins	02-64
Fig. 4	Series 415...001	Very Low Profile
	415-XX-2_ _ -41-001	
	Specify # of pins	02-64
	Series 415...003	Ultra Low Profile
	415-XX-2_ _ -41-003	
	Specify # of pins	02-72

**XX= Plating Code
See Below**

**For High
Temperature
Insulators Add
'100'
To End Of
Part Numbers**

SPECIFY PLATING CODE XX=	13	93	
Sleeve (Pin) 	10μ" Au	200μ" Sn/Pb	
Contact (Clip) 	30μ" Au	30μ" Au	



SINGLE-IN-LINE SOCKETS
Elevated
Double Row

Series 416

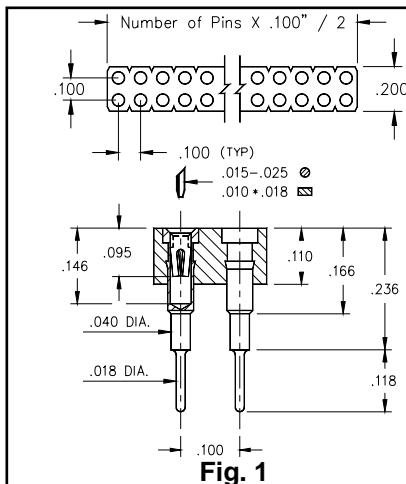


Fig. 1



- Elevated sockets are available in 5 different standoff heights.
- 416...006 uses pin# 0153-1
- 416...003 uses pin# 0153-2
- 416...007 uses pin# 0153-3
- 416...008 uses pin# 0153-4
- 416...001 uses pin# 0153-5
- See page 136 for details.
- Hi-Rel, 4-finger BeCu #30 clip rated at 3 amps. See page 208 for details.

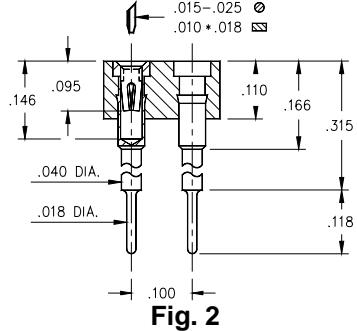


Fig. 2

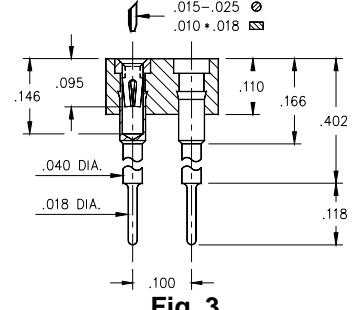


Fig. 3

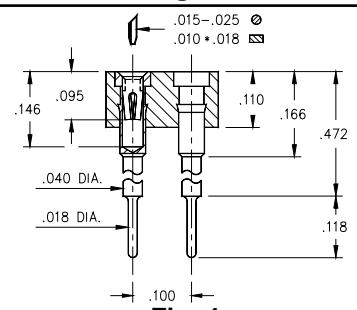


Fig. 4

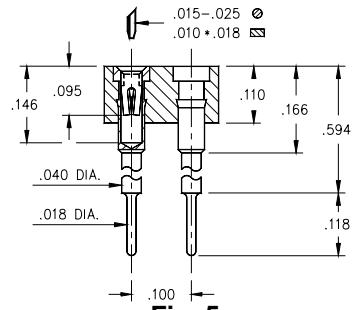


Fig. 5

Ordering Information

Series 416...006 Standoff Height = .236"

Fig. 1

416-XX-2_ _-41-006

Specify # of pins → 02-64

Series 416...003 Standoff Height = .315"

Fig. 2

416-XX-2_ _-41-003

Specify # of pins → 02-64

Series 416...007 Standoff Height = .402"

Fig. 3

416-XX-2_ _-41-007

Specify # of pins → 02-64

Series 416...008 Standoff Height = .472"

Fig. 4

416-XX-2_ _-41-008

Specify # of pins → 02-64

Series 416...001 Standoff Height = .594"

Fig. 5

416-XX-2_ _-41-001

Specify # of pins → 02-64

**XX= Plating Code
See Below**

**For High Temperature
Insulators Add '100'
To End Of
Part Numbers**

SPECIFY PLATING CODE XX=

93

Sleeve (Pin)

200μ" Sn/Pb

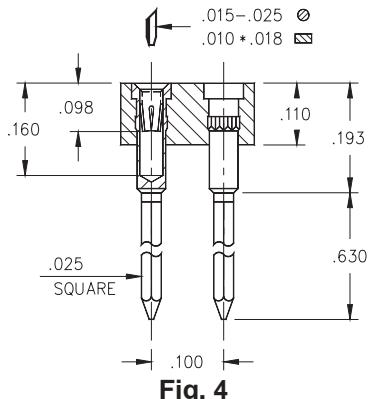
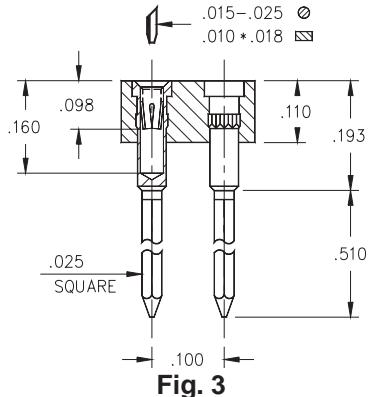
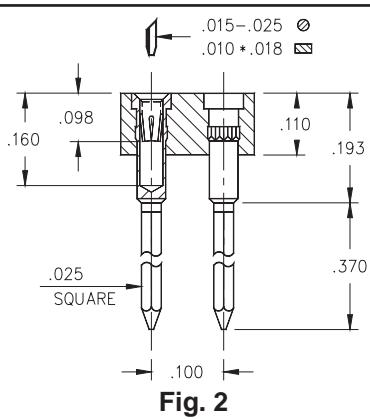
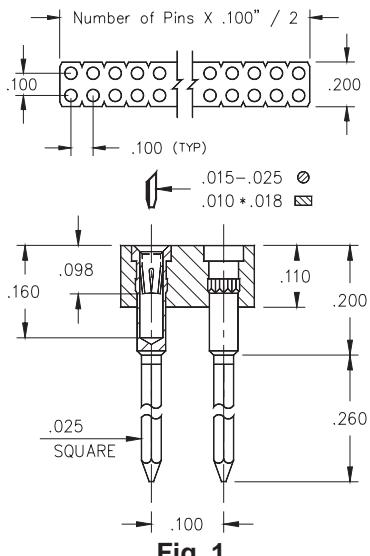
Contact (Clip)

30μ" Au

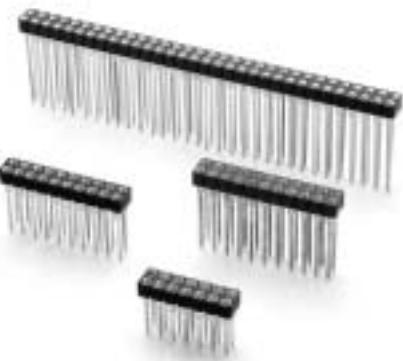


SINGLE-IN-LINE SOCKETS
Wrapost
Double Row

Series 421, 422
423, 424



- Wrapost double row strip sockets are available with one to four-level wraposts: M-M# 0040, 0089, 0088, or 0086 pins. See page 162 for details.
- Hi-Rel, 4-finger #30 BeCu contact is rated at 3 amps. See page 208 for details.



Ordering Information

Series 421...001 1 Level Wrapost

Fig. 1

421-XX-2_ _-41-001

Specify # of pins

02-64

Series 422...001 2 Level Wrapost

Fig. 2

422-XX-2_ _-41-001

Specify # of pins

02-64

Series 423...001 3 Level Wrapost

Fig. 3

423-XX-2_ _-41-001

Specify # of pins

02-64

Series 424...002 4 Level Wrapost

Fig. 4

424-XX-2_ _-41-002

Specify # of pins

02-64

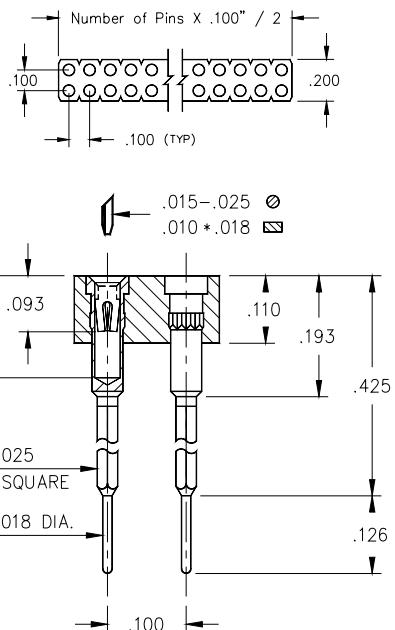
**XX= Plating
Code
See Below**

SPECIFY PLATING CODE XX=	13	93	
Sleeve (Pin)	10μ" Au		200μ" Sn/Pb
Contact (Clip)	30μ" Au		30μ" Au



SINGLE-IN-LINE SOCKETS
Wrapost with Solder Tail
Double Row

Series 426



- Wrapost/ solder tail combination for interconnect purposes: M-M# 2601, 2602 or 2603 pin receptacles. See page 163 for details.
- Hi-Rel, 4-finger #30 BeCu contact is rated at 3 amps. See page 208 for details.



Ordering Information

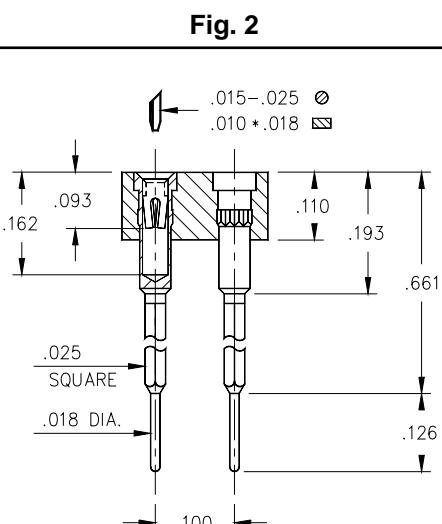
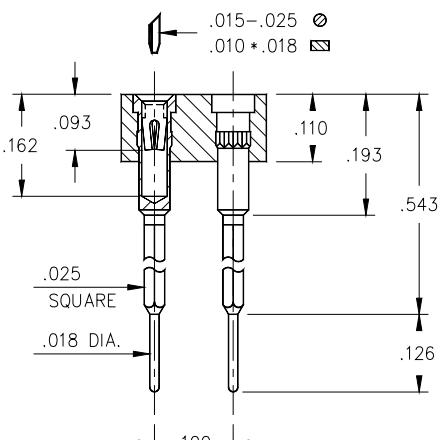


Fig. 1

Series 426...001

1 Level Wrapost

426-XX-2_-41-001

Specify # of pins

02-64

Fig. 2

Series 426...002

2 Level Wrapost

426-XX-2_-41-002

Specify # of pins

02-64

Fig. 3

Series 426...003

3 Level Wrapost

426-XX-2_-41-003

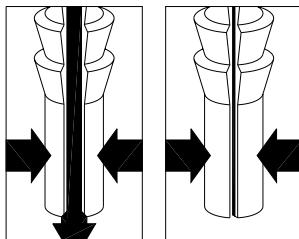
Specify # of pins

02-64

**XX= Plating Code
See Below**

SPECIFY PLATING CODE XX=	13	93	
Sleeve (Pin)	10μ" Au		200μ" Sn/Pb
Contact (Clip)	30μ" Au		30μ" Au

<p>Number of Pins X .100" / 2</p> <p>.100</p> <p>.200</p> <p>.100 (TYP)</p>	<ul style="list-style-type: none"> • Compliant tail solderless press-fit: M-M# 4612 or 4613 pins. Use series 446...012 for .060-.120" thick boards, and series 446...013 for .090-.130" boards. See page 131 for details. • Compliant tail receptacles can be inserted and removed without degradation of the plated-thru-hole. • Hi-Rel, 4-finger #30 BeCu contact is rated at 3 amps. See page 208 for details. 	
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APPLICATION OF COMPLIANT TAIL PINS


Mill-Max's patented* compliant tail features precision machined pins that are hollow and slotted to conform to a $.040" \pm .003"$ diameter PTH. As the pin is inserted, the slot compresses to fit the PTH, thus avoiding damage (see illustration at left). The pin's tail has fine serrations that form a perfect "gas tight" connection that doesn't require soldering. And since the pin doesn't damage the hole, compliant tail sockets and connectors can be easily replaced.

*Patent No. 4,799,904.

<p>Fig. 1</p>	Ordering Information
	Series 446...012 446-XX-2 _ -41-012 Specify # of pins 02-64

<p>Fig. 2</p>	Series 446...013 446-XX-2 _ -41-013 Specify # of pins 02-64
	XX= Plating Code See Below

<p>Fig. 2</p>	SPECIFY PLATING CODE XX= <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">13</td><td style="width: 25%;"></td><td style="width: 25%;">93</td><td style="width: 25%;">99</td></tr> <tr> <td>Sleeve (Pin) </td><td>10μ" Au</td><td></td><td>200μ" Sn/Pb</td></tr> <tr> <td>Contact (Clip) </td><td>30μ" Au</td><td></td><td>30μ" Au</td></tr> <tr> <td></td><td></td><td></td><td>200μ" Sn/Pb</td></tr> </table>	13		93	99	Sleeve (Pin)	10 μ " Au		200 μ " Sn/Pb	Contact (Clip)	30 μ " Au		30 μ " Au				200 μ " Sn/Pb
13		93	99														
Sleeve (Pin)	10 μ " Au		200 μ " Sn/Pb														
Contact (Clip)	30 μ " Au		30 μ " Au														
			200 μ " Sn/Pb														
XX= Plating Code See Below																	



SINGLE-IN-LINE SOCKETS
Carrier with Solder Tail
Single and Double Row

Series 712

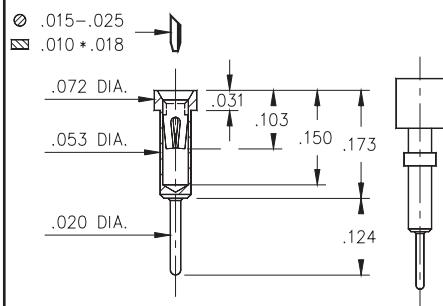
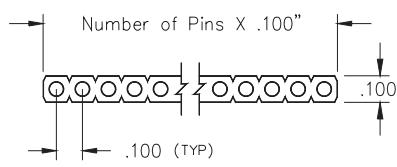
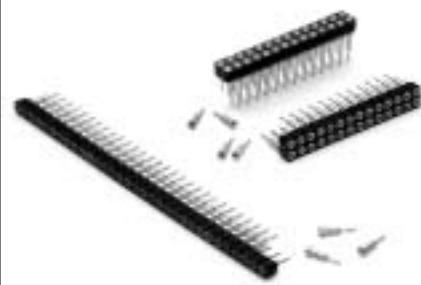


Fig. 1

- Standard solder tail receptacles can be mounted as a low profile receptacle or by the solder tail for use in smaller diameter holes.
- Series 712 uses M-M# 0255 pin. See page 134 for details.
- Hi-Rel #30 BeCu contact is rated at 3 amps. See page 208 for details.



Ordering Information

Fig. 1

Single Row (.028 or .055 min. mounting holes)

712-XX-1_ _ -41-001

Specify # of pins

01-64

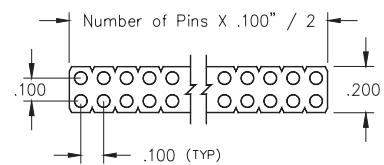


Fig. 2

Double Row (.028 or .055 min. mounting holes)

712-XX-2_ _ -41-001

Specify # of pins

02-64

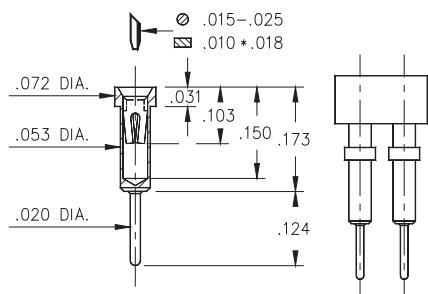


Fig. 2

**XX= Plating Code
See Below**

SPECIFY PLATING CODE XX=	13	93	
Sleeve (Pin)	10μ" Au		200μ" Sn/Pb
Contact (Clip)	30μ" Au		30μ" Au



SINGLE-IN-LINE SOCKETS
Low Profile Carriers
Single and Double Row

Series 714...00X

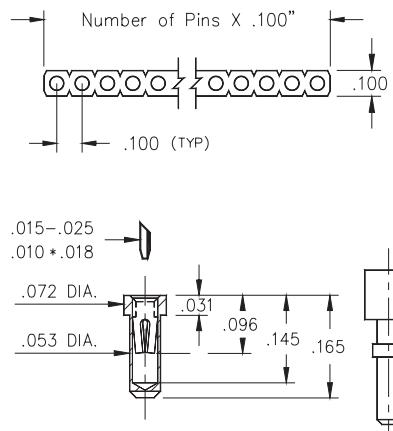


Fig. 1

- Low profile receptacles sit .031" above board.
- Series 714 uses M-M# 1401 & 1407 pin receptacles. See page 126 for details.
- Hi-Rel 4-finger BeCu #30 contact is used in the 1401 receptacle and a #11 contact is used in the 1407. Both are rated at 3 amps. See pages 206 & 208 for details.

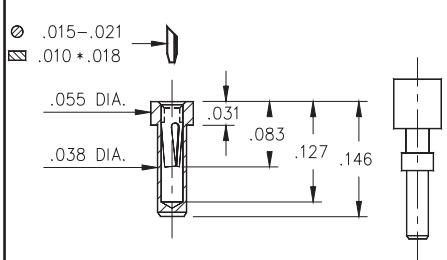


Fig. 2

Fig. 1

Single Row (.055 min. mounting hole)

714-XX-1_-41-001

Specify # of pins

01-64

Fig. 2

Single Row (.039 min. mounting hole)

714-XX-1_-31-007

Specify # of pins

01-64

Fig. 3

Double Row (.055 min. mounting hole)

714-XX-2_-41-001

Specify # of pins

02-64

Fig. 4

Double Row (.039 min. mounting hole)

714-XX-2_-31-007

Specify # of pins

02-64

Fig. 3

Fig. 4

**XX= Plating Code
See Below**

SPECIFY PLATING CODE XX=			93	99
Sleeve (Pin)			200μ" Sn/Pb	200μ" Sn/Pb
Contact (Clip)			30μ" Au	200μ" Sn/Pb



SINGLE-IN-LINE SOCKETS
Ultra Low Profile Carriers
Single and Double Row

Series 714... 01X

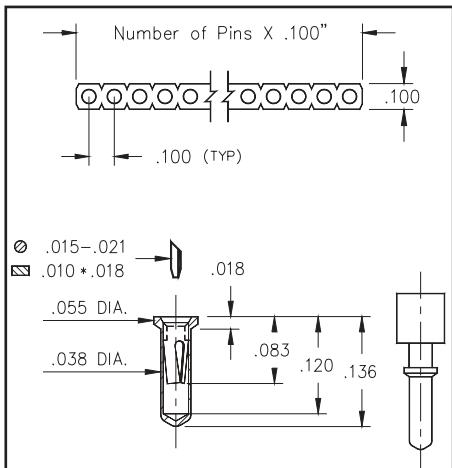


Fig. 1

- Ultra low profile receptacles sit .018" above the board.
- Series 714 uses M-M# 0552-1, 0552-2 pin receptacles. See page 127 for details.
- Hi-Rel, 3-finger BeCu #11 clip is rated at 3amps. See page 206 for details.

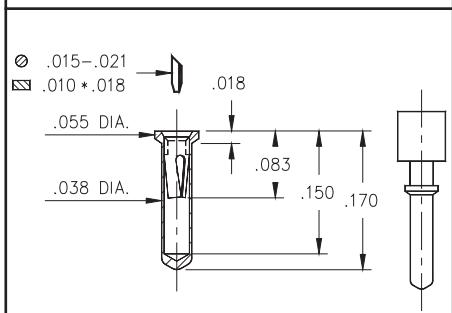


Fig. 2

Fig. 1

Ordering Information

Single Row (.039 min. mounting hole)

714-XX-1 __ -31-012

Specify # of pins → 01-64

Fig. 2

Single Row (.039 min. mounting hole)

714-XX-1 __ -31-018

Specify # of pins → 01-64

Fig. 3

Double Row (.039 min. mounting hole)

714-XX-2 __ -31-012

Specify # of pins → 02-64

Fig. 4

Double Row (.039 min. mounting hole)

714-XX-2 __ -31-018

Specify # of pins → 02-64

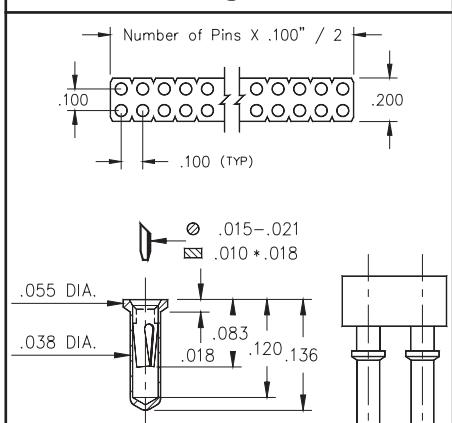


Fig. 3

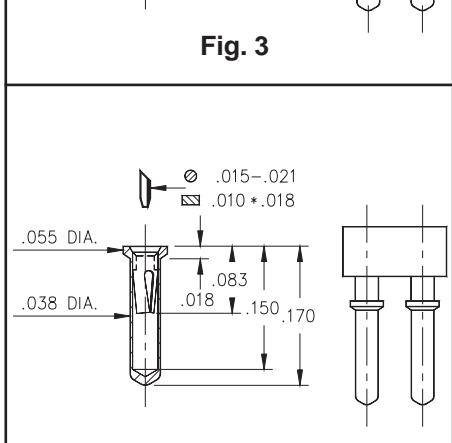


Fig. 4

**XX= Plating Code
See Below**

SPECIFY PLATING CODE XX=			93	99
Sleeve (Pin)			200μ" Sn/Pb	200μ" Sn/Pb
Contact (Clip)			30μ" Au	200μ" Sn/Pb



HEADER STRIPS
Interconnect
Single Row

Series 351

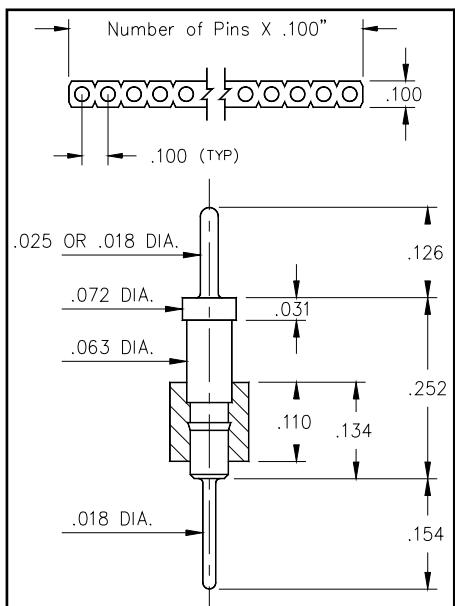


Fig. 1

- Series 351 Interconnect Header Strips come in three lengths with .018" dia. pluggable solder tails at one end and .025" dia. pins at the other. (M-M# 5503, 5504 or 5505 see page 172 for details).
- .018" pluggable solder tails are available at both ends, see series:
351...009
351...010
351...011
(using M-M# 5509, 5510, 5511 pins respectively, see page 170 & 172 for details).



Ordering Information

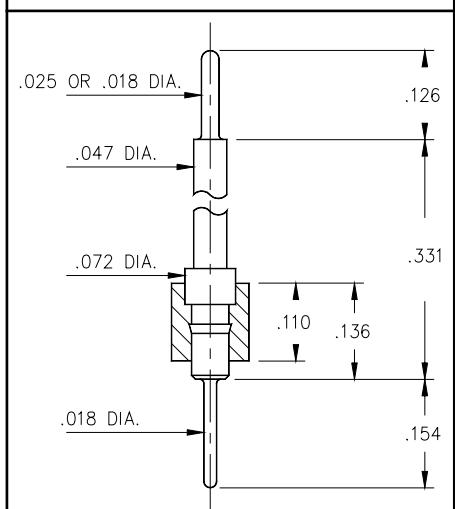


Fig. 2

Fig. 1

Series 351...003 .018 / .025 Solder Tails

351-XX-1 _ -00-003

Specify # of pins

01-64

Series 351...009 .018 / .018 Solder Tails

351-XX-1 _ -00-009

Specify # of pins

01-64

Series 351...004 .018 / .025 Solder Tails

351-XX-1 _ -00-004

Specify # of pins

01-64

Series 351...010 .018 / .018 Solder Tails

351-XX-1 _ -00-010

Specify # of pins

01-64

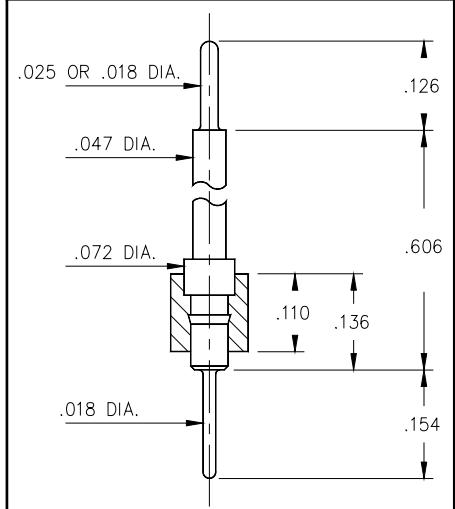


Fig. 3

Fig. 2

Fig. 3

Series 351...005 .018 / .025 Solder Tails

351-XX-1 _ -00-005

Specify # of pins

01-64

Series 351...011 .018 / .018 Solder Tails

351-XX-1 _ -00-011

Specify # of pins

01-64

*XX= Plating Code
See Below*

SPECIFY PLATING CODE XX=	10	90		
Pin Plating	10μ" Au	200μ" Sn/Pb		



HEADER STRIPS
Interconnects
Single Row

Series 334

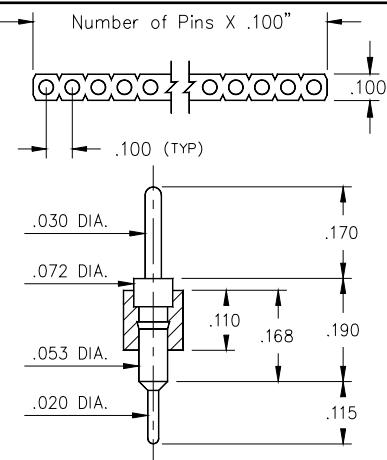


Fig. 1

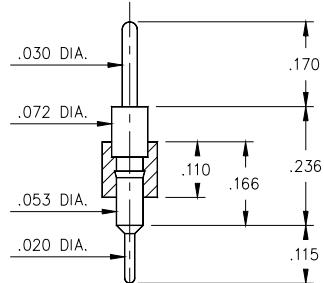


Fig. 2

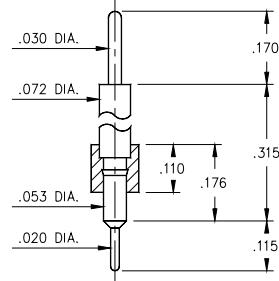


Fig. 3

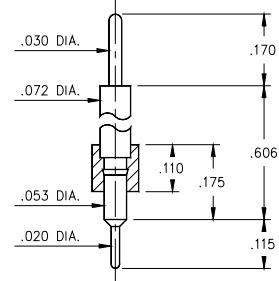


Fig. 4

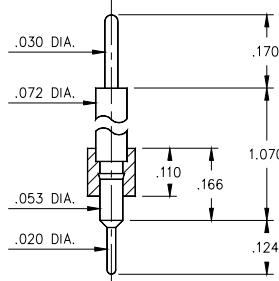


Fig. 5

- Series 334 Interconnect strips come in five lengths.
L = .190"
L = .236"
L = .315"
L = .606"
L = 1.080"
(M-M# 3402, 3401, 3405, 3400 & 3410. See page 173 for details).
- Strips come with .020" pluggable solder tails at one end and .030" tails at the other.



Ordering Information

Fig. 1	Series 334...020	.020 / .030 Solder Tails
	334-XX-1_ _-00-020	
Fig. 2	Specify # of pins	01-64
	334-XX-1_ _-00-010	
Fig. 3	Specify # of pins	01-64
	334-XX-1_ _-00-050	
Fig. 4	Specify # of pins	01-64
	334-XX-1_ _-00-000	
Fig. 5	Specify # of pins	01-64
	334-XX-1_ _-00-100	

**XX= Plating Code
See Below**

SPECIFY PLATING CODE XX=	10	90		
Pin Plating	10μ" Au	200μ" Sn/Pb		



HEADER STRIPS
Interconnect
Single Row

Series 342

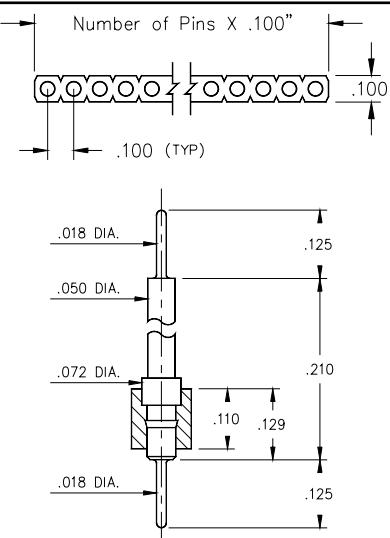


Fig. 1

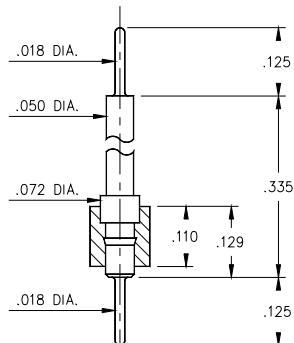


Fig. 2

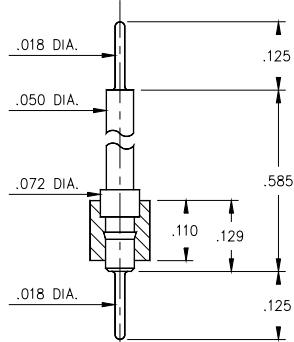


Fig. 3

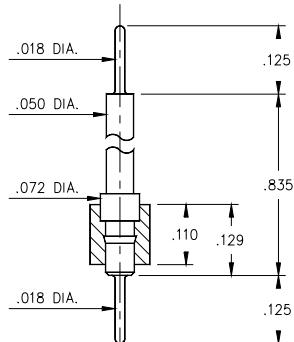


Fig. 4

- Series 342 Interconnect Header Strips come in four heights with .018" dia. pluggable solder tails at both ends. (M-M# 4259-1, 4259-2, 4259-3, & 4259-4. See page 170 for details).
- Strips available four heights:
L = .210"
L = .335"
L = .585"
L = .835"



Ordering Information

Fig. 1	Series 342...591	.018 / .018 Solder Tails
	342-XX-1 _ -00-591	
Fig. 2	Specify # of pins	01-64
	342-XX-1 _ -00-592	
Fig. 3	Specify # of pins	01-64
	342-XX-1 _ -00-593	
Fig. 4	Specify # of pins	01-64
	342-XX-1 _ -00-594	

**XX= Plating Code
See Below**

**For High Temperature
Insulators Add '100'
To End Of
Part Numbers**

SPECIFY PLATING CODE XX=	10	90		
Pin Plating	10μ" Au	200μ" Sn/Pb		



HEADER STRIPS
Solder Tail
Single Row

**Series 350, 360
370, 380**

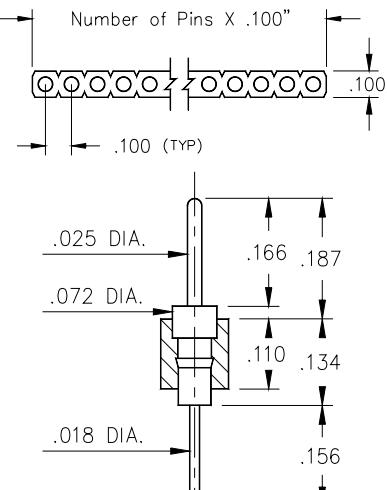


Fig. 1

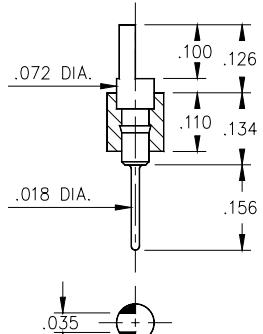


Fig. 2

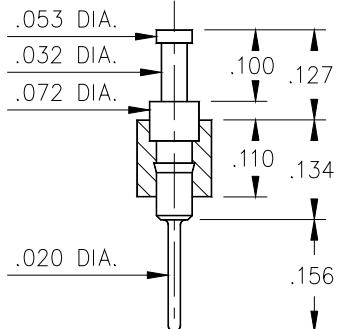


Fig. 3

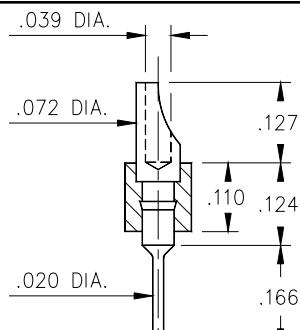


Fig. 4

- Series 350, 360, 370, 380 single row Header Strips come with various contacts (pin, slotted head, turret and solder cup) with pluggable solder tails. (M-M# 0290, 0282, 0700, or 8000 see pages 173 & 174 for details).



Ordering Information

Fig. 1	Series 350...001 .025 Pin / .018 Solder Tail
	350-XX-1_ _-00-001 Specify # of pins → 01-64
Fig. 2	Series 360...001 Slotted Head / Solder Tail
	360-XX-1_ _-00-001 Specify # of pins → 01-64
Fig. 3	Series 370...001 Turret / Solder Tail
	370-XX-1_ _-00-001 Specify # of pins → 01-64
Fig. 4	Series 380...001 Solder Cup / Solder Tail
	380-XX-1_ _-00-001 Specify # of pins → 01-64

**XX= Plating Code
See Below**

**For High
Temperature
Insulators Add '100'
To End Of
Part Numbers**

SPECIFY PLATING CODE XX=	10	90		
Pin Plating	10μ" Au	200μ" Sn/Pb		

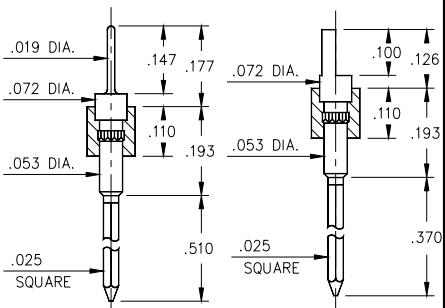
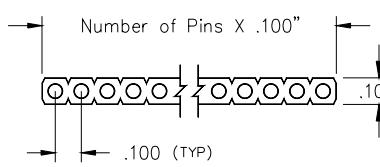


Fig. 1

- Series 353, 362, 363, 373, 382, 383 single row Header Strips come with various contacts (pin, slotted head, turret and solder cup) with wrapost tails. (M-M# 5301, 1106-2, 1106-3, 0730-3 & 8301-2, 8301-3 see pages 184 & 185 for details).



Fig. 2

Ordering Information

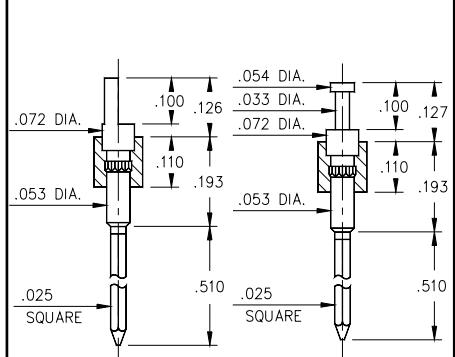


Fig. 3

Fig. 2

Series 362...001 Slotted Head / 2 Level Wrapost

362-XX-1 __ -00-001
 Specify # of pins → 01-64

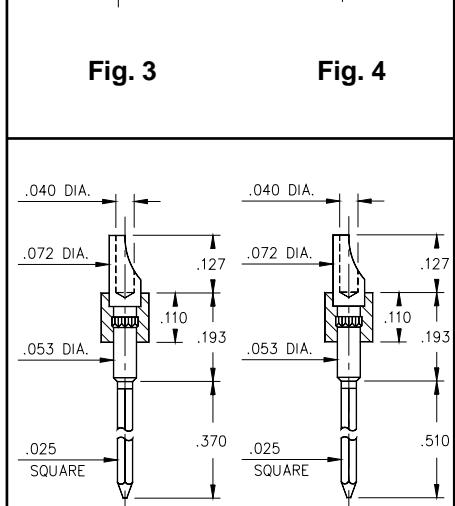


Fig. 5

Fig. 4

Series 363...001 Slotted Head / 3 Level Wrapost

363-XX-1 __ -00-001
 Specify # of pins → 01-64

Series 373..001 Turret / 3 Level Wrapost

373-XX-1 __ -00-001
 Specify # of pins → 01-64

Fig. 5

Series 382...001 Solder Cup / 2 Level Wrapost

382-XX-1 __ -00-001
 Specify # of pins → 01-64

Fig. 6

Series 383...001 Solder Cup / 3 Level Wrapost

383-XX-1 __ -00-001
 Specify # of pins → 01-64

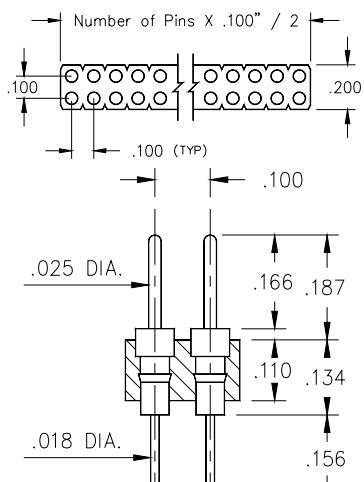
**XX= Plating Code
 See Below**

SPECIFY PLATING CODE XX=	10	90		
Pin Plating	10μ" Au	200μ" Sn/Pb		



HEADER STRIPS
Solder Tail
Double Row

**Series 450, 460
470, 480**



- Series 450, 460, 470, 480 double row Header Strips come with various contacts (pin, slotted head, turret and solder cup) with pluggable solder tails. (M-M# 0290, 0282, 0700, or 8000 see pages 173 & 174 for details).



Ordering Information

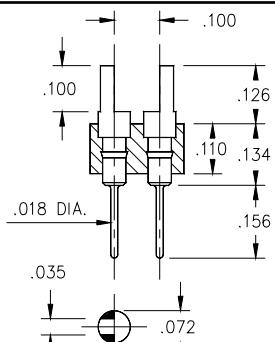
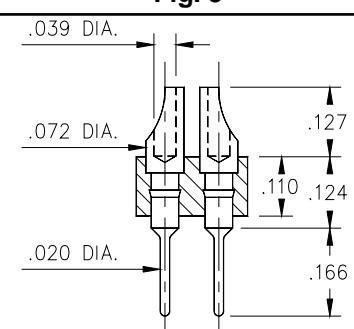
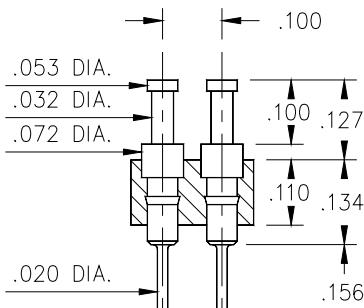


Fig. 1	Series 450...001	Pin / Solder Tail
	450-XX-2_ _-00-001	Specify # of pins → 02-64

Fig. 2	Series 460...001	Slotted Head / Solder Tail
	460-XX-2_ _-00-001	Specify # of pins → 02-64

Fig. 3	Series 470...001	Turret / Solder Tail
	470-XX-2_ _-00-001	Specify # of pins → 02-64

Fig. 4	Series 480...001	Solder Cup / Solder Tail
	480-XX-2_ _-00-001	Specify # of pins → 02-64



**XX= Plating Code
See Below**

**For High
Temperature
Insulators Add '100'
To End Of
Part Numbers**

SPECIFY PLATING CODE XX=	10	90		
Pin Plating	10μ" Au	200μ" Sn/Pb		



HEADER STRIPS
Wrapost
Double Row

**Series 453, 463
473, 483**

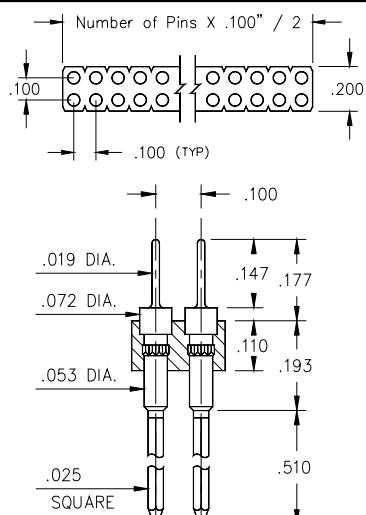


Fig. 1

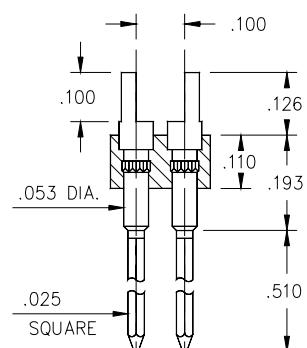


Fig. 2

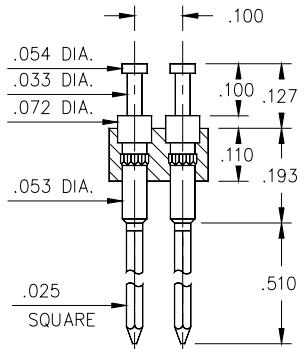


Fig. 3

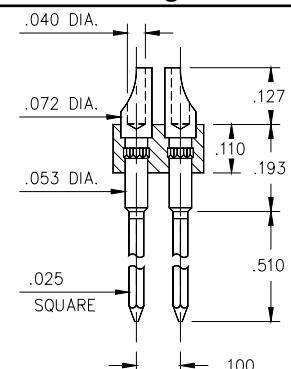


Fig. 4

- Series 453, 463, 473, 483 single row Header Strips come with various contacts (pin, slotted head, turret and solder cup) with wrapost tails. (M-M# 5301, 1106-3, 0730-3 & 8301-3 see pages 184 & 185 for details).



Ordering Information

Fig. 1

Series 453...001 Pin / 3 Level Wrapost

453-XX-2 _ -00-001

Specify # of pins → 02-64

Fig. 2

Series 463...001 Slotted Head / 3 Level Wrapost

463-XX-2 _ -00-001

Specify # of pins → 02-64

Fig. 3

Series 473...001 Turret / 3 Level Wrapost

473-XX-2 _ -00-001

Specify # of pins → 02-64

Fig. 4

Series 483...001 Solder Cup / 3 Level Wrapost

483-XX-2 _ -00-001

Specify # of pins → 02-64

**XX= Plating Code
See Below**

SPECIFY PLATING CODE XX=	10	90		
Pin Plating	10μ" Au	200μ" Sn/Pb		



HEADER STRIPS
Interconnect
Double Row

Series 451

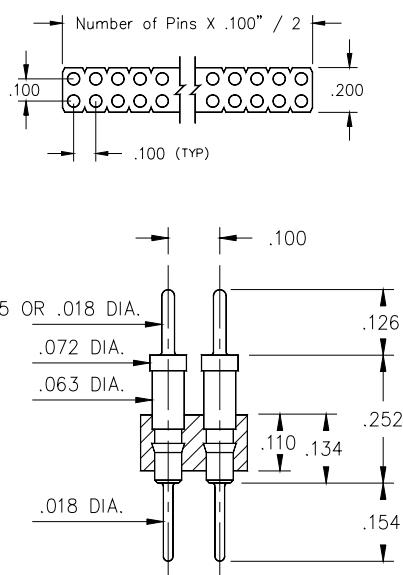


Fig. 1

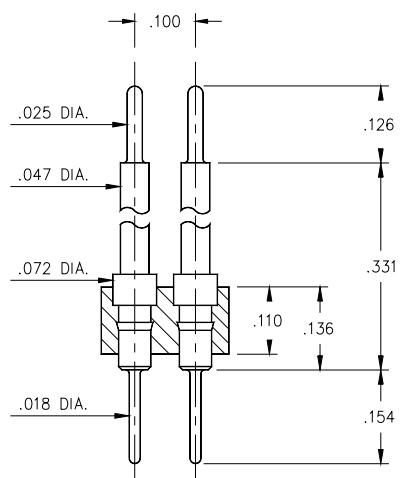


Fig. 2

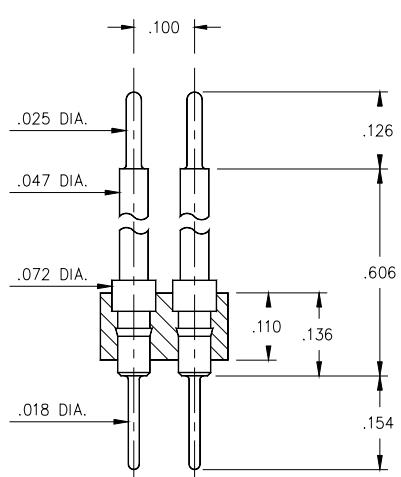


Fig. 3

- Series 451 Interconnect Header Strips come in three lengths with .018" dia. pluggable solder tails at one end and .025" dia. pins at the other. (M-M# 5503, 5504 or 5505 see page 172 for details).
- .018" pluggable solder tails are available at both ends, please see series:
451...009
451...010
451...011
(using M-M# 5509, 5510, 5511 pins respectively. See pages 170 & 172 for details).



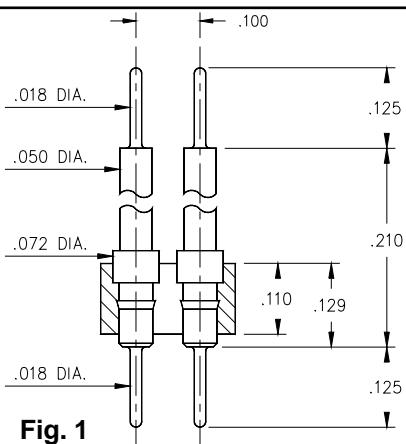
Ordering Information

Fig. 1	Series 451...003	.018 / .025 Solder Tails								
	451-XX-2_ _-00-003									
Fig. 2	Specify # of pins	02-64								
	Series 451...009	.018 / .018 Solder Tails								
Fig. 3	451-XX-2_ _-00-009									
	Specify # of pins	02-64								
Fig. 2	Series 451...004	.018 / .025 Solder Tails								
	451-XX-2_ _-00-004									
Fig. 3	Specify # of pins	02-64								
	Series 451...010	.018 / .018 Solder Tails								
Fig. 3	451-XX-2_ _-00-010									
	Specify # of pins	02-64								
Fig. 3	Series 451...005	.018 / .025 Solder Tails								
	451-XX-2_ _-00-005									
Fig. 3	Specify # of pins	02-64								
	Series 451...011	.018 / .018 Solder Tails								
Fig. 3	451-XX-2_ _-00-011									
	Specify # of pins	02-64								
SPECIFY PLATING CODE XX= <table border="1" style="display: inline-table;"><tr><td>10</td><td>90</td><td></td><td></td></tr><tr><td>Sleeve (Pin)</td><td></td><td>10μ" Au</td><td>200μ" Sn/Pb</td></tr></table>			10	90			Sleeve (Pin)		10μ" Au	200μ" Sn/Pb
10	90									
Sleeve (Pin)		10μ" Au	200μ" Sn/Pb							

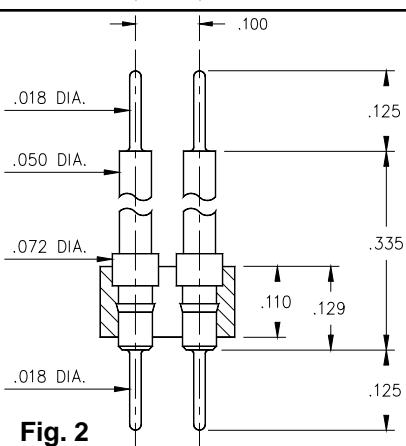


HEADER STRIPS
Interconnect
Double Row

Series 442



- Series 442 Interconnect Header Strips come in four lengths with .018" dia. pluggable solder tails at both ends. (M-M# 4259-1, 4259-2, 4259-3, & 4259-4. See page 170 for details).
- Strips are available five lengths.
L = .210"
L = .335"
L = .585"
L = .835"



Ordering Information

Series 442...591 .018 / .018 Interconnect

Fig. 1

442-XX-2_ _-00-591

Specify # of pins → 02-64

Series 442...592 .018 / .018 Interconnect

Fig. 2

442-XX-2_ _-00-592

Specify # of pins → 02-64

Series 442...593 .018 / .018 Interconnect

Fig. 3

442-XX-2_ _-00-593

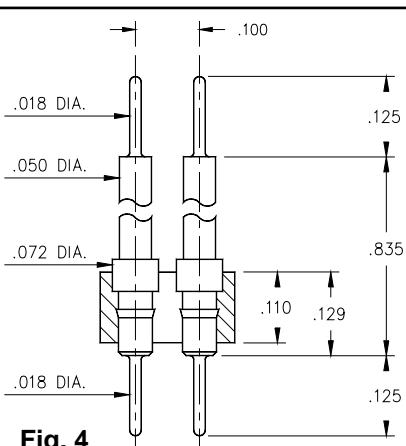
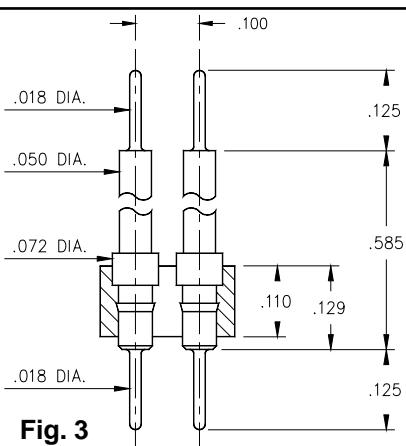
Specify # of pins → 02-64

Series 442...594 .018 / .018 Interconnect

Fig. 4

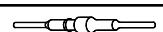
442-XX-2_ _-00-594

Specify # of pins → 02-64



**XX= Plating Code
See Below**

**For High
Temperature
Insulators Add '100'
To End Of
Part Numbers**

SPECIFY PLATING CODE XX=	10	90		
Sleeve (Pin) 	10μ" Au	200μ" Sn/Pb		



INTERCONNECTS QUICK SELECTOR CHART

USE THIS CONVENIENT CHART TO SELECT THE RIGHT INTERCONNECT FOR YOUR APPLICATION.

- 1) Determine the style of pin needed to meet your requirement.
- 2) Select the appropriate insulator frame.
- 3) Turn to indicated page for detail and ordering information.
- 4) For custom assembly in a selected insulator, contact our applications engineers.

INTERCONNECTS

SELECT PIN	.018 DIA. PINS						.030 DIA. PINS				.040 DIA PINS	.025 SQUARE PINS		
	Vertical Socket	Right Angle Socket	Vertical Pin	Right Angle Pin	Surface Mount Pin	Surface Mount Socket	Solderless Press-Fit	Vertical Socket	Right Angle Socket	Vertical Pin	Right Angle Pin	Vertical Socket	Vertical Pin	Right Angle Pin
	69		69											
	70	71	70	71	72	72								
	70	71	70	71	72	72								
	73		73		74	74								
	73		73		74	74								
	75	75	75 77	75	78	78	83	79 81	79 81	79 81	79 81			
	76	76	76 77	76	78	78	84	80 81	80	80	80	82	85	85

For Technical Specifications, see page 4.



INTERCONNECTS
1mm Grid
Single & Double Row

Series 86X

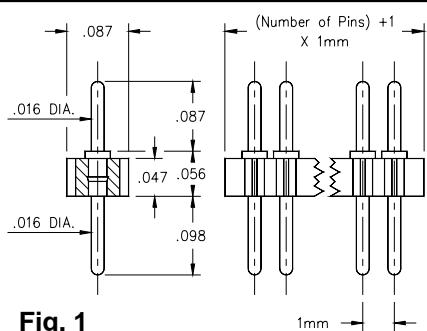


Fig. 1

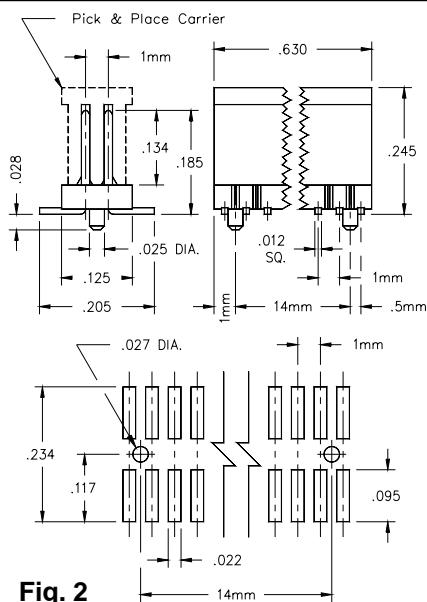


Fig. 2

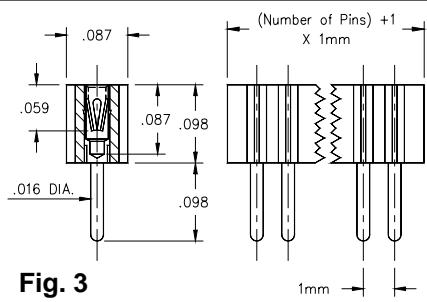


Fig. 3

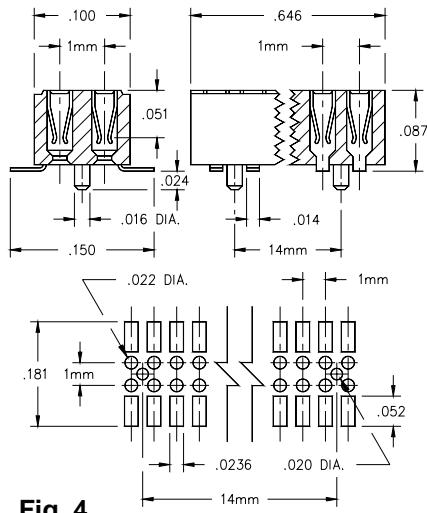


Fig. 4

- Single row header and socket have .016" dia. pins for thru-hole mount. A mated pair achieves a stack height of .154".
- Dual row header has .012" square pins.
- Dual row socket is designed for top or bottom entry of the header. Top entry achieves a stack height of .138", bottom entry achieves a stack height of .051".
- Dual row socket and header have location posts to permit hand placement prior to soldering.



Ordering Information

Single Row Pin Header, Thru Hole Mount

Fig. 1

860-XX-0_ _-10-001

Specify # of pins → 03-50

Double Row Pin Header, Surface Mount

Fig. 2

862-XX-032-10-001

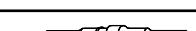
32 pins (2x16)

*XX= Plating Code
See Below*

SPECIFY PLATING CODE XX=

10

Pin Plating



10μ" Au

Single Row Socket, Thru Hole Mount

Fig. 3

861-XX-0_ _-10-001

Specify # of pins → 03-50

Double Row Socket, Surface Mount

Fig. 4

863-XX-032-10-001

32 pins (2x16)

*XX= Plating Code
See Below*

SPECIFY PLATING CODE XX=

91

Sleeve (Pin)



200μ" Sn/Pb

Contact (Clip)



10μ" Au



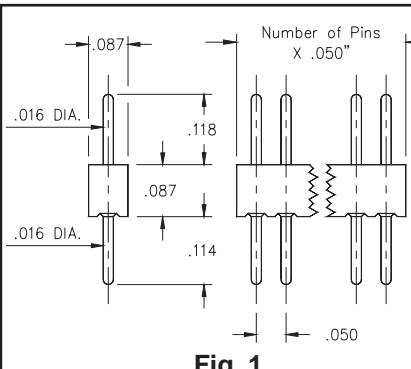
INTERCONNECTS

.050" Grid

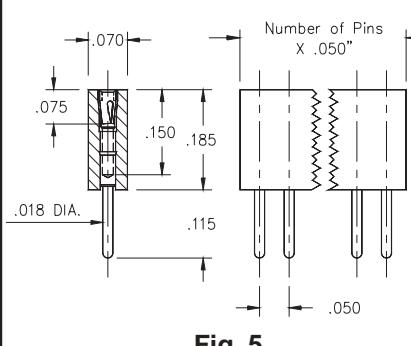
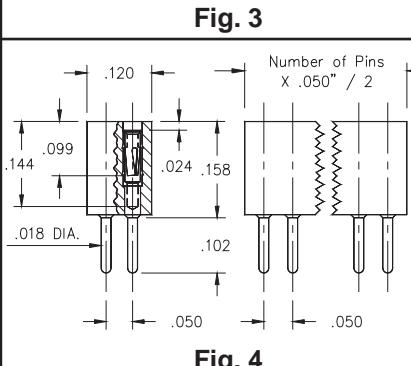
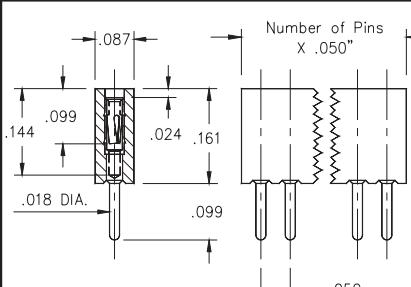
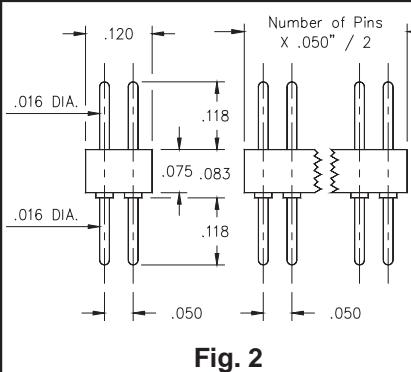
Single and Double Row

Series 850, 851

852, 853



- Series 850 single and double row interconnects have .050" pin spacing and permit board stacking as low as .248".
- Pin headers have .017" dia. pins. (MM# 3006 see page 166 for details).
- MM# 0489 and 0467 receptacles use M-M#11 Hi-Rel, 3-finger beryllium copper contacts rated at 3 amps. (#11 contact accepts pin diameters from .015-.020)
- Insulators are high temp. thermoplastic, suitable for all soldering operations.



Ordering Information

Fig. 1 Single Row .087" Profile Pin Header

850-XX-0_ _-10-001

Specify # of pins → 01-50

Fig. 2 Double Row .075" Profile Pin Header

852-XX- _ _ -10-001

Specify # of pins → 002-100

**XX= Plating Code
See Below**

SPECIFY PLATING CODE XX= 10 90

Pin Plating 10μ" Au 200μ" Sn/Pb

Fig. 3 Single Row .161" Profile Socket

851-XX-0_ _-10-001

Specify # of pins → 01-50

Fig. 4 Double Row .161" Profile Socket

853-XX- _ _ -10-001

Specify # of pins → 002-100

Fig. 5 Single Row .185" Profile Socket

851-XX-0_ _-10-002

Specify # of pins → 01-77

**XX= Plating Code
See Below**

SPECIFY PLATING CODE XX= 93 99

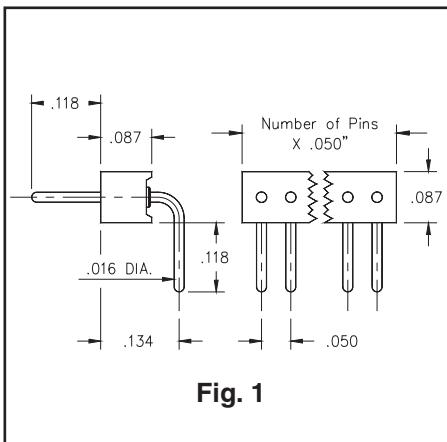
Sleeve (Pin) ① 200μ" Sn/Pb 200μ" Sn/Pb

Contact (Clip) ② 30μ" Au 200μ" Sn/Pb



INTERCONNECTS
.050" Grid
Right Angle Headers and Sockets

**Series 850, 851
852, 853**



- Series 850 and 851 interconnects are available in single and double row form.
- Headers (850 & 852) use MM# 4006-1, -2 pins. (See page 166 for details)
- Sockets (851 & 853) use MM# 0489-1, -2 receptacles that accept pin diameters from .015-.021. (See page 129 for details)
- Insulators are high temp. thermoplastic.

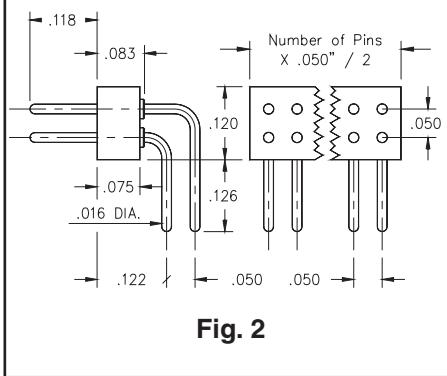


Fig. 1	Single Row Right Angle Pin Header	
	850-XX-0__-20-001	
	Specify # of pins → 01-50	

Fig. 2	Double Row Right Angle Pin Header	
	852-XX-__-20-001	
	Specify # of pins → 002-100	

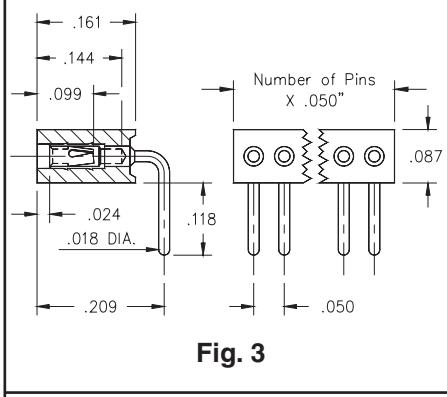


Fig. 3	Single Row Right Angle Socket	
	851-XX-0__-20-001	
	Specify # of pins → 01-50	

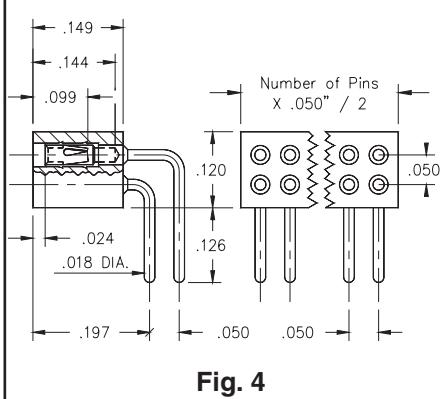


Fig. 4	Double Row Right Angle Socket	
	853-XX-__-20-001	
	Specify # of pins → 002-100	

**XX= Plating Code
See Below**

SPECIFY PLATING CODE XX=	10	90		
Pin Plating	10μ" Au	200μ" Sn/Pb		
SPECIFY PLATING CODE XX=	93	99		
Sleeve (Pin)	200μ" Sn/Pb	200μ" Sn/Pb		
Contact (Clip)	30μ" Au	200μ" Sn/Pb		



**INTERCONNECTS
.050" Grid
Surface Mount Headers and Sockets**

Series 850, 851
852, 853

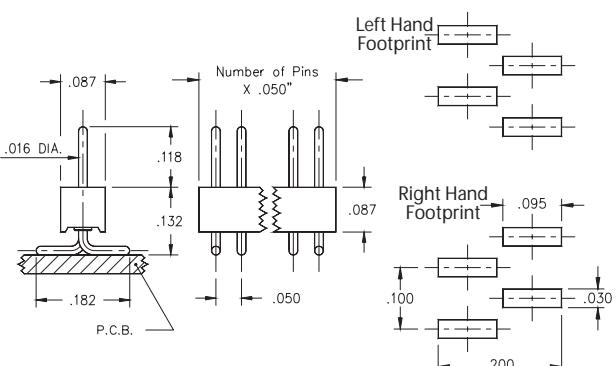


Fig. 1

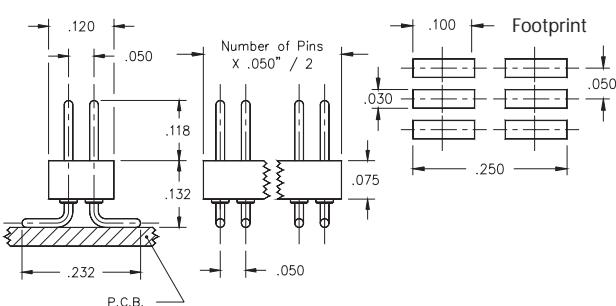


Fig. 2

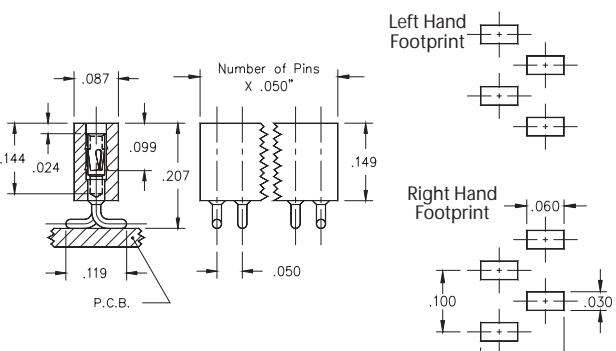


Fig. 3

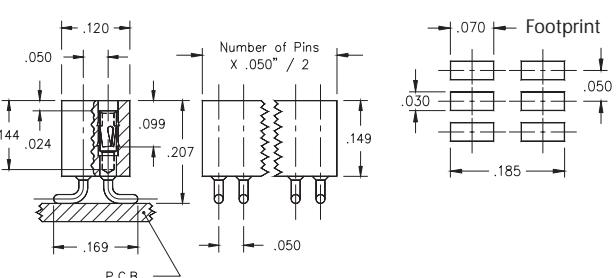


Fig. 4

- Series 850 and 851 interconnects are available in single and double row form.

- Single row interconnects having an even number of pins are now available with a left or right hand footprint.

- Headers (850 & 852) use MM# 4006 pins. (See page 166 for details)

- Sockets (851 & 853) use MM# 0489 receptacles and accept pin diameters from .015-.021. (See page 129 for details)

- Insulators are high temp. thermoplastic.



Ordering Information

Fig. 1L	Single Row Header, Left Hand Footprint Odd or Even # of pins		
	850-XX-0_ _-30-001		
Fig. 1R	Specify # of pins		
	→ 01-50		
Fig. 2	Single Row Header, Right Hand Footprint Even # of pins		
	850-XX-0_ _-30-002		
Fig. 2	Specify even # of pins		
	→ 02-50		
Fig. 3L	Double Row Header, Even # of pins		
	852-XX- _ _ -30-001		
Fig. 3L	Specify even # of pins		
	→ 002-100		
Fig. 3L	SPECIFY PLATING CODE XX=	10	90
	Pin Plating	10μ" Au	200μ" Sn/Pb
Fig. 3L	Single Row Socket, Left Hand Footprint Odd or Even # of pins		
	851-XX-0_ _-30-001		
Fig. 3L	Specify # of pins		
	→ 01-50		
Fig. 3R	Single Row Socket, Right Hand Footprint Even # of pins		
	851-XX-0_ _-30-002		
Fig. 3R	Specify even # of pins		
	→ 02-50		
Fig. 4	Double Row Socket, Even # of pins		
	853-XX- _ _ -30-001		
Fig. 4	Specify even # of pins		
	→ 002-100		
Fig. 4	SPECIFY PLATING CODE XX=	93	99
	Sleeve (Pin)	200μ" Sn/Pb	200μ" Sn/Pb
	Contact (Clip)	30μ" Au	200μ" Sn/Pb



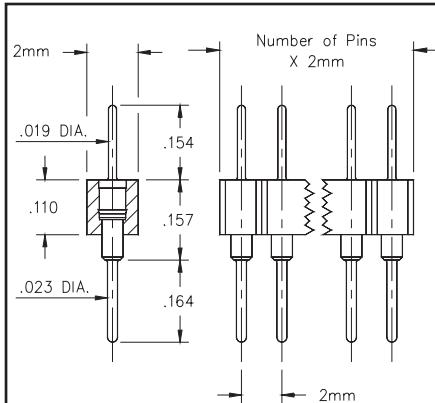
INTERCONNECTS

2mm Grid

Single and Double Row

Series 830, 831

832, 833



- Series 830 single and double row interconnects have 2 mm pin spacing and permit board stacking as low as .322".
- Pin headers (830 & 832) use MM# 5012 pins. (See page 166 for details)
- Sockets (831 & 833) use MM# 1802 receptacle accepts pin diameters from .015-.025. (See page 138 for details)
- Insulators are high temperature thermoplastic, suitable for all soldering operations.

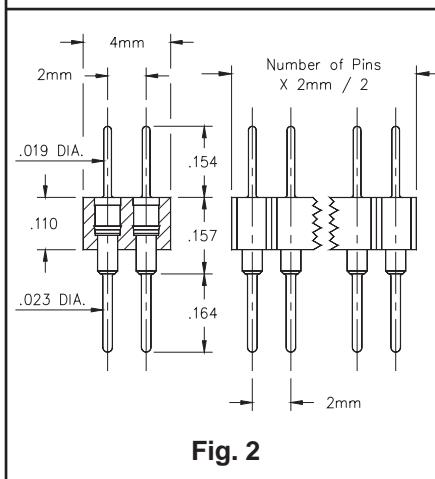


Fig. 1

Ordering Information

Single Row Pin Header

830-XX-0__-10-001

Specify # of pins → 01-50

Fig. 2

Double Row Pin Header

832-XX-__-10-001

Specify # of pins → 002-100

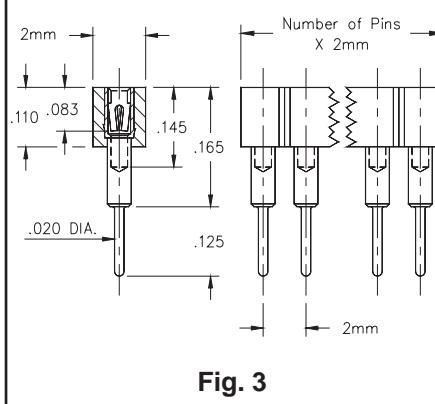


Fig. 3

**XX= Plating Code
See Below**

SPECIFY PLATING CODE XX=	10	90		
Pin Plating	10μ" Au	200μ" Sn/Pb		

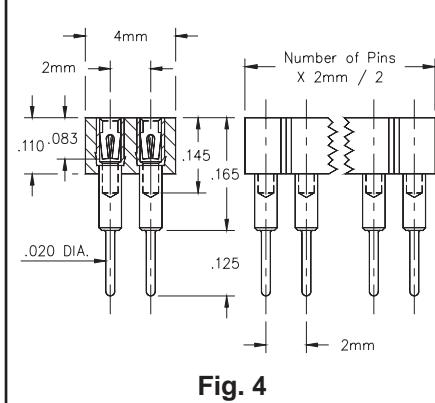


Fig. 4

Double Row Socket

833-XX-__-10-001

Specify # of pins → 002-100

**XX= Plating Code
See Below**

SPECIFY PLATING CODE XX=			93	
Sleeve (Pin)	0		200μ" Sn/Pb	
Contact (Clip)	0		30μ" Au	

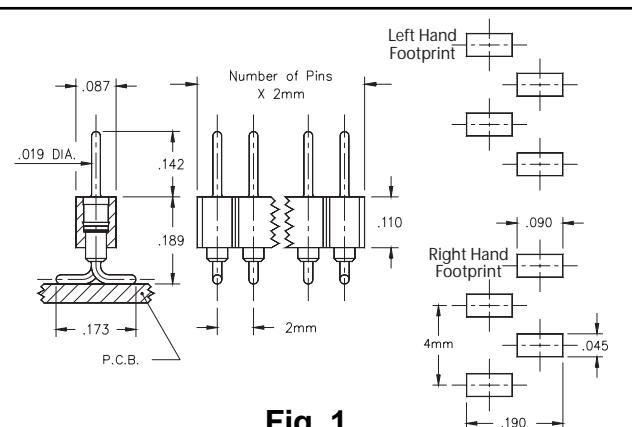


Fig. 1

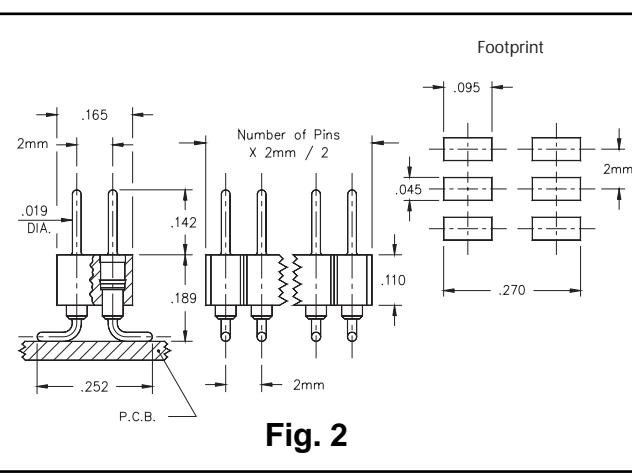


Fig. 2

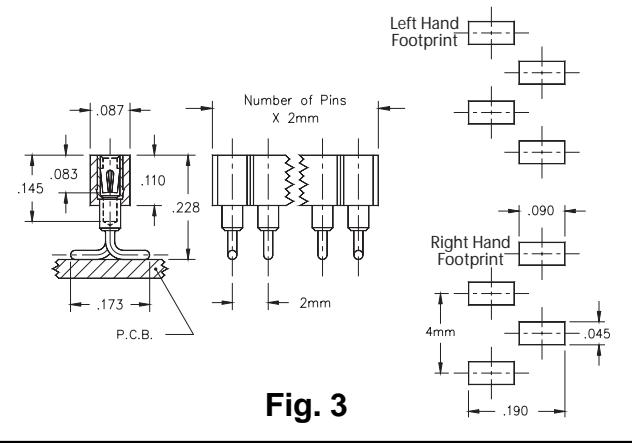


Fig. 3

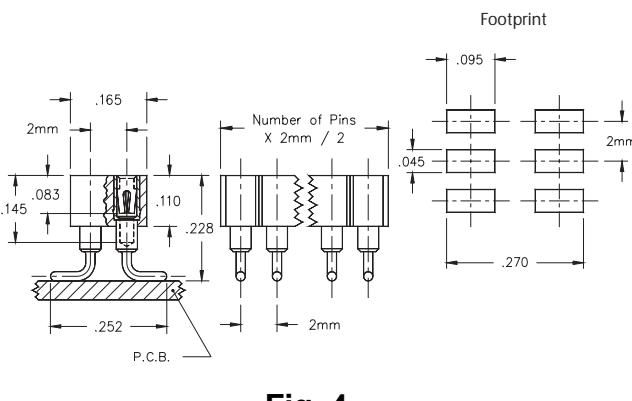
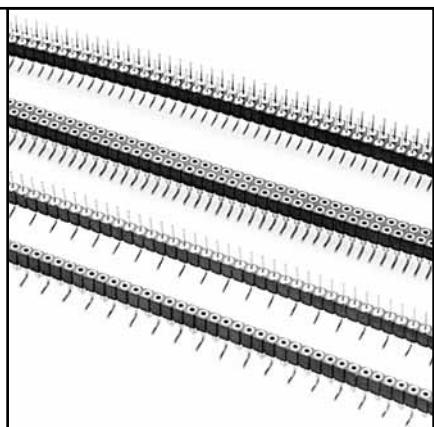


Fig. 4

- Series 830 and 831 interconnects are available in single and double row form.
- Single row interconnects having an even number of pins are now available with a left or right hand footprint.
- Headers (830 & 832) use MM# 6218 pins. (See page 166 for details)
- Sockets (831 & 833) use MM# 1802 receptacles and accept pin diameters from .015-.025. (See page 138 for details)
- Insulators are high temp. thermoplastic.



Ordering Information

Fig. 1L	Single Row Header, Left Hand Footprint Odd or Even # of pins				
	830-XX-0_ _-30-001 Specify # of pins → 01-50				
Fig. 1R	Single Row Header, Right Hand Footprint Even # of pins				
	830-XX-0_ _-30-002 Specify even # of pins → 02-50				
Fig. 2	Double Row Header, Even # of pins				
	832-XX- _ _ _-30-001 Specify even # of pins → 002-100				
Fig. 3L	SPECIFY PLATING CODE XX=	10 90			
	Pin Plating → 10μ" Au 200μ" Sn/Pb				
Fig. 3L	Single Row Socket, Left Hand Footprint Odd or Even # of pins				
	831-XX-0_ _-30-001 Specify # of pins → 01-50				
Fig. 3R	Single Row Socket, Right Hand Footprint Even # of pins				
	831-XX-0_ _-30-002 Specify even # of pins → 02-50				
Fig. 4	Double Row Socket, Even # of pins				
	833-XX- _ _ _-30-001 Specify even # of pins → 002-100				
Fig. 4	SPECIFY PLATING CODE XX=	93 99			
	Sleeve (Pin) → 200μ" Sn/Pb 200μ" Sn/Pb				
	Contact (Clip) → 30μ" Au 200μ" Sn/Pb				



INTERCONNECTS
.018" dia. Pins Straight and Right Angle
Single Row

Series 310, 350, 399

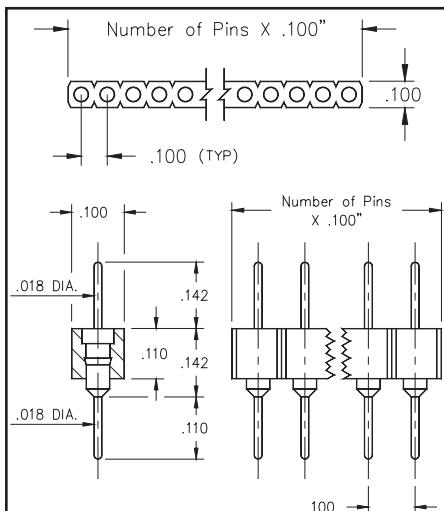


Fig. 1

- Series 3XX are available with straight and right angle solder tails.
- Series 350 & 399...009 use MM# 3404 & 5011 pins. (See pages 170 & 172 for details)
- Series 310 & 399...003 use MM# 1001 & 1103 receptacles (see pages 134 & 135 for details)
- Receptacles use Hi-Rel, 4-finger #30 contact rated at 3 amps.
- Hi-Temp thermoplastic insulator available upon request.

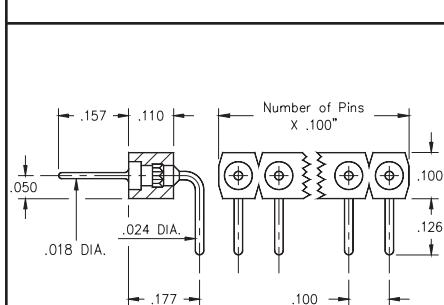


Fig. 2

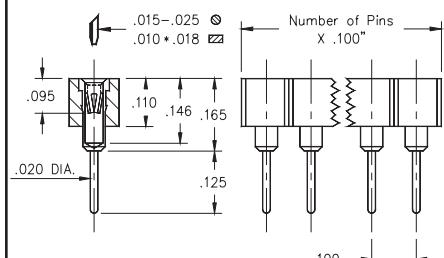


Fig. 3

Ordering Information

Series 350...006 Straight Pin Header

Fig. 1

350-XX-1 _ -00-006

Specify # of pins

01-64

Series 399...009 Right Angle Pin Header

Fig. 2

399-XX-1 _ -10-009

Specify # of pins

01-64

**XX= Plating Code
See Below**

SPECIFY PLATING CODE XX=

10

90

Pin Plating

10 μ " Au

200 μ " Sn/Pb

Series 310...001 Straight Socket

Fig. 3

310-XX-1 _ -41-001

Specify # of pins

01-64

Series 399...003 Right Angle Socket

Fig. 4

399-XX-1 _ -10-003

Specify # of pins

01-64

**XX= Plating Code
See Below**

SPECIFY PLATING CODE XX=

13

91

93

99

Sleeve (Pin)

10 μ " Au

200 μ " Sn/Pb

200 μ " Sn/Pb

Contact (Clip)

30 μ " Au

10 μ " Au

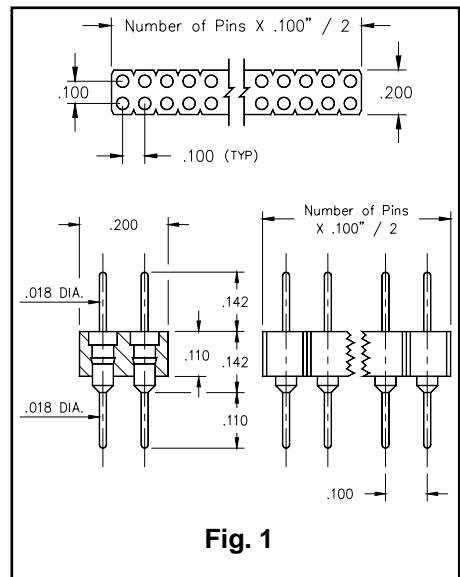
30 μ " Au

200 μ " Sn/Pb



INTERCONNECTS
.018" dia. Pins Straight and Right Angle
Double Row

Series 410, 450, 499



- Series 4XX sockets are available with straight and right angle solder tails.
- Series 450 & 499...009 use MM# 3404 & 5011/5113 pins respectively. (See pages 170 & 172 for details)
- Series 410 & 499...003 use MM# 1001 & 1103/1602 pins respectively. (See pages 134-136 for details)
- Hi-Temp thermoplastic insulator available upon request.

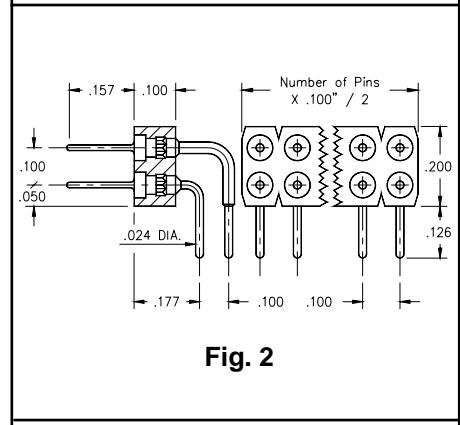
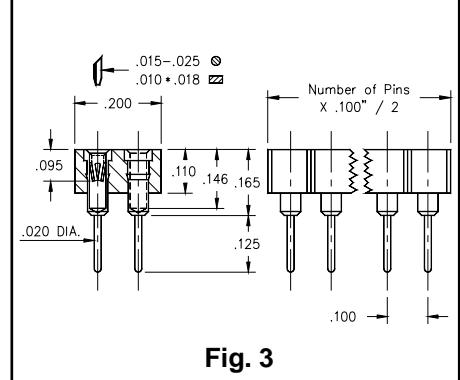


Fig. 1	Series 450...006 Straight Pin Header	
	450-XX-2 _ -00-006	
	Specify # of pins → 02-64	

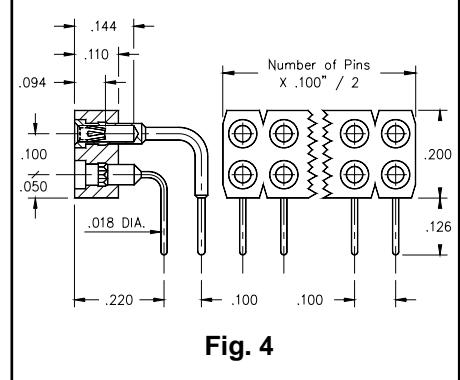
Fig. 2	Series 499...009 Right Angle Pin Header	
	499-XX-2 _ -10-009	
	Specify # of pins → 02-64	



SPECIFY PLATING CODE XX=	10	90		
Pin Plating	10μ" Au	200μ" Sn/Pb		

Fig. 3	Series 410...001 Straight Socket	
	410-XX-2 _ -41-001	
	Specify # of pins → 02-64	

Fig. 4	Series 499...003 Right Angle Socket	
	499-XX-2 _ -10-003	
	Specify # of pins → 02-64	



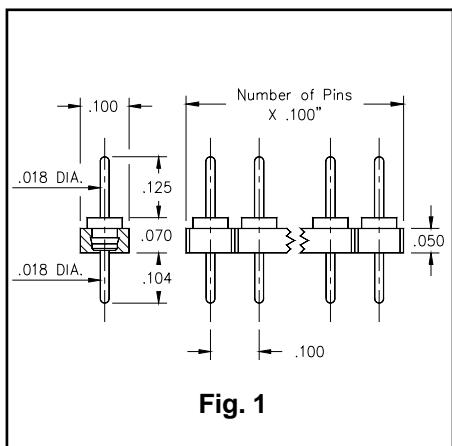
SPECIFY PLATING CODE XX=	13	93	
Sleeve (Pin)	10μ" Au	200μ" Sn/Pb	
Contact (Clip)	30μ" Au	30μ" Au	

**XX= Plating Code
See Below**



INTERCONNECTS
Low Profile, .018" dia. Pins
Single and Double Row

Series 335, 364
435, 464



- Series 335 and 435 single and double row PCB interconnects offer lowest profile available .070".
- Series 364 and 464 single and double row PCB interconnects offer .085" profile above board.
- Series 335 and 435 use M-M# 3516 pins. (See page 170 for details)
- Series 364 and 464 use MM# 6458 pins. (See page 171 for details)
- Insulators are high temp. thermoplastic.

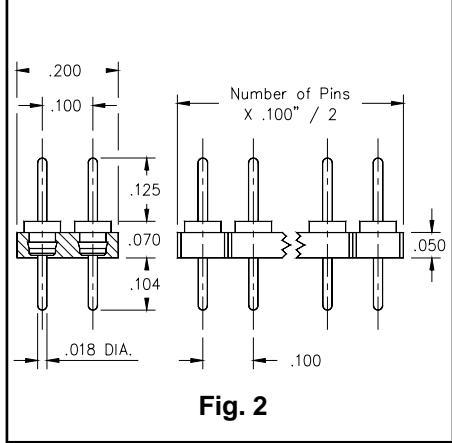


Fig. 1	Single Row	.070" Profile Pin Header
	335-XX-1 _ _ -00-160 Specify # of pins	01-32

Fig. 2	Double Row	.070" Profile Pin Header
	435-XX-2 _ _ -00-160 Specify # of pins	02-72

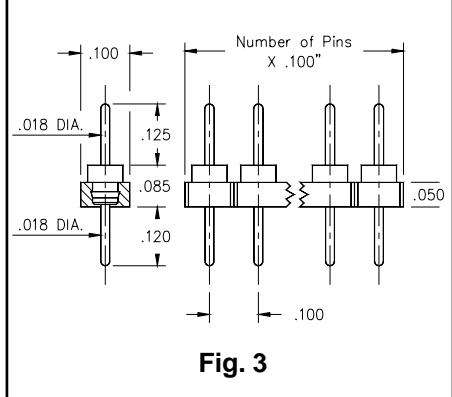


Fig. 3	Single Row	.085" Profile Pin Header
	364-XX-1 _ _ -00-580 Specify # of pins	01-32

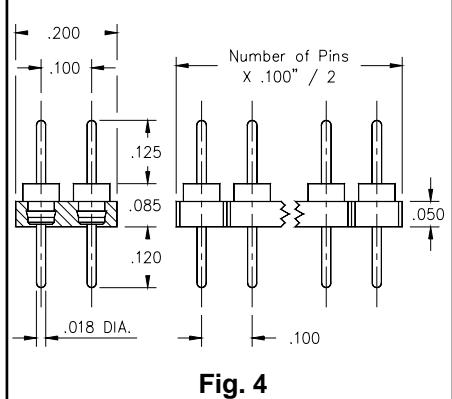
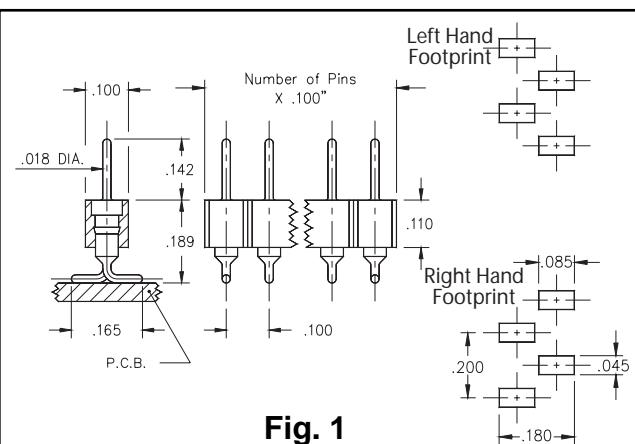


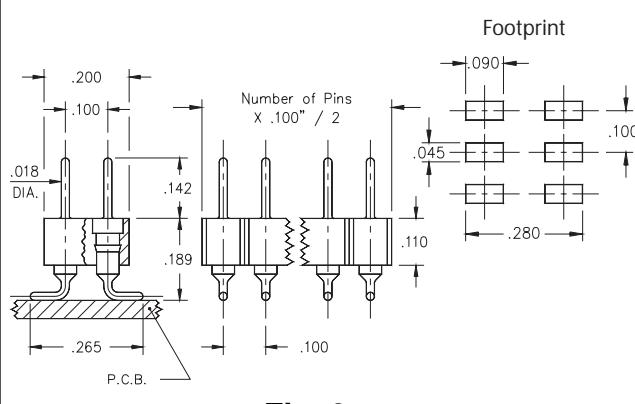
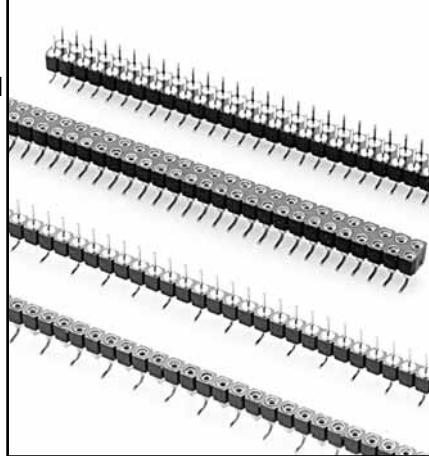
Fig. 4	Double Row	.085" Profile Pin Header
	464-XX-2 _ _ -00-580 Specify # of pins	02-72

XX= Plating Code
See Below

SPECIFY PLATING CODE XX=	10	90		
Pin Plating	10μ" Au	200μ" Sn/Pb		

Surface Mount Headers and Sockets

Fig. 1

- Series 310 and 350 interconnects are available in single and double row form.

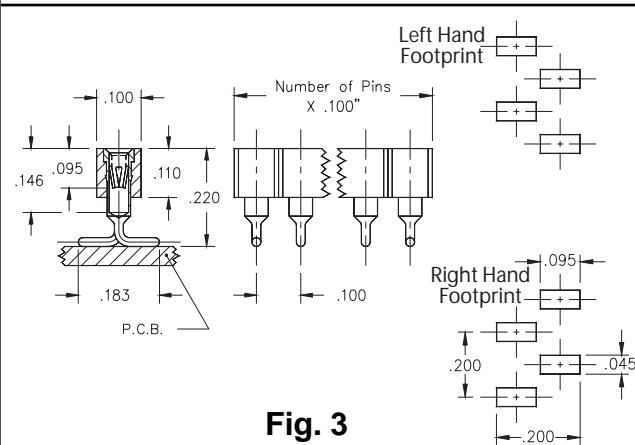
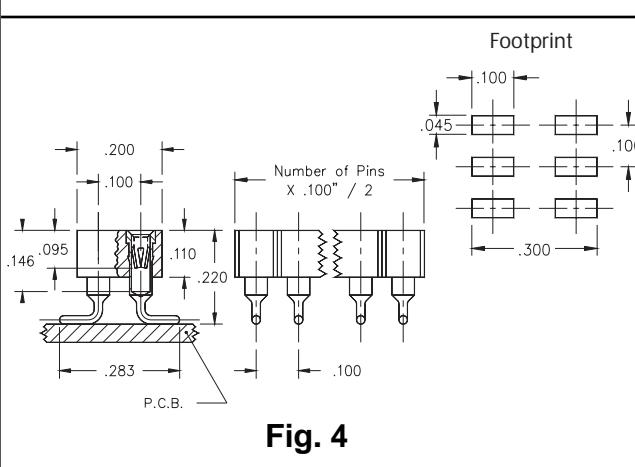

Fig. 2

- Single row interconnects having an even number of pins are now available with a left or right hand footprint.
- Headers (350 & 450) use MM# 3404 pins. (See page 170 for details)

- Sockets (310 & 410) use MM# 1005 receptacles and accept pin diameters from .015-.025. (See page 135 for details)
- Insulators are high temp. thermoplastic.

Ordering Information

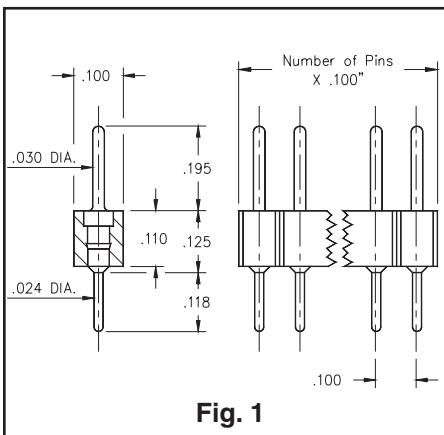
Fig. 1L	Single Row Header, Left Hand Footprint Odd or Even # of pins	
	350-XX-1_ _-00-106	
Fig. 1R	Specify # of pins	
	01-64	
Fig. 2	Single Row Header, Right Hand Footprint Even # of pins	
	350-XX-1_ _-00-107	
Fig. 2	Specify even # of pins	
	02-64	
Fig. 3L	Double Row Header, Even # of pins	
	450-XX-2 _ _-00-106	
Fig. 3L	Specify even # of pins	
	02-72	
SPECIFY PLATING CODE XX=		
10		90
Pin Plating		10μ" Au 200μ" Sn/Pb
Fig. 3L	Single Row Socket, Left Hand Footprint Odd or Even # of pins	
	310-XX-1_ _-41-105	
Fig. 3R	Specify # of pins	
	01-64	
Fig. 3R	Single Row Socket, Right Hand Footprint Even # of pins	
	310-XX-1_ _-41-107	
Fig. 4	Specify even # of pins	
	02-64	
Fig. 4	Double Row Socket, Even # of pins	
	410-XX-2 _ _-41-105	
Fig. 4	Specify even # of pins	
	02-72	
SPECIFY PLATING CODE XX=		
93		99
Sleeve (Pin)		200μ" Sn/Pb 200μ" Sn/Pb
Contact (Clip)		30μ" Au 200μ" Sn/Pb


Fig. 3

Fig. 4



INTERCONNECTS
.030" dia. Pins, Straight and Right Angle
Single Row

Series 800, 801



- Receptacles accept .030" diameter and .025" square pins such as Series 890 and 892 pin headers.
- Pin interconnects available with straight (MM# 7007) or right angle (MM# 5005) solder tails. (See page 173 for details)
- Sockets are available with straight (MM# 1304) or right angle (MM# 1305) solder tails. (See pages 146 & 147 for details)

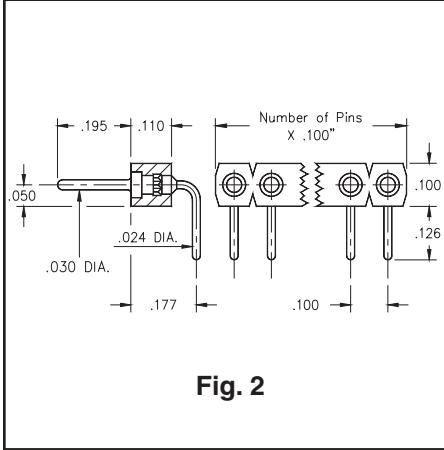
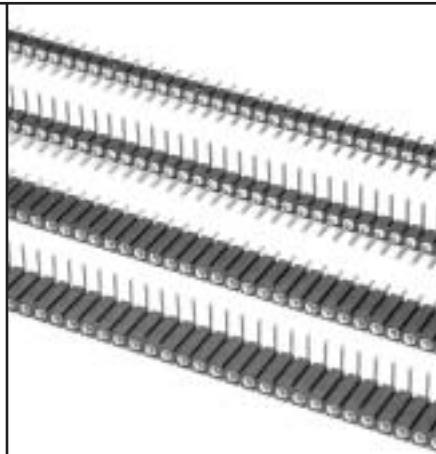


Fig. 1

Series 800...10-001 Straight Pin Header

800-XX-0 _ _ -10-001

Specify # of pins → 01-64

Fig. 2

Series 800...20-001 Right Angle Pin Header

800-XX-0 _ _ -20-001

Specify # of pins → 01-64

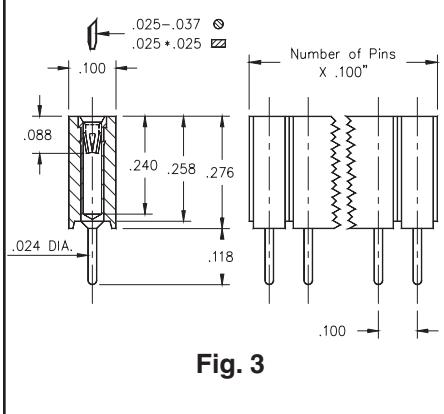


Fig. 3

Series 801...10-001 Straight Socket

801-XX-0 _ _ -10-001

Specify # of pins → 01-50

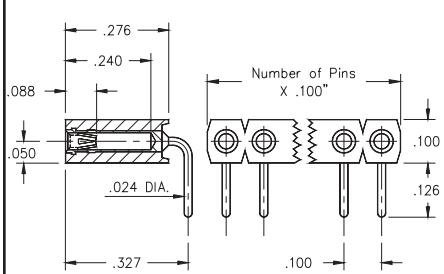


Fig. 4

Series 801...20-001 Right Angle Socket

801-XX-0 _ _ -20-001

Specify # of pins → 01-50

**XX= Plating Code
See Below**

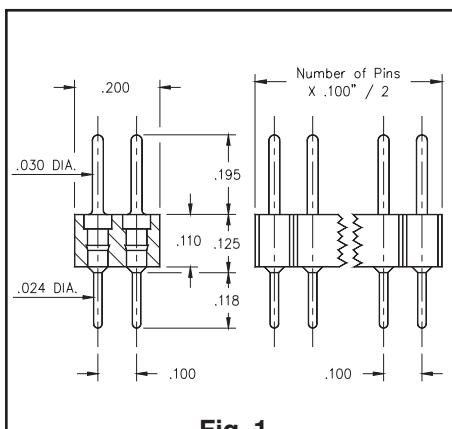
SPECIFY PLATING CODE XX=	10	90		
Pin Plating	10μ" Au	200μ" Sn/Pb		

**XX= Plating Code
See Below**

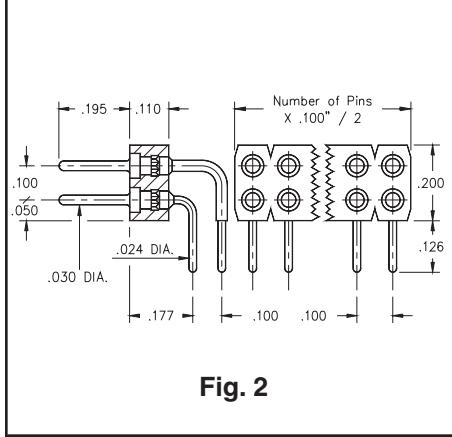


INTERCONNECTS
.030" dia. Pins Straight and Right Angle
Double Row

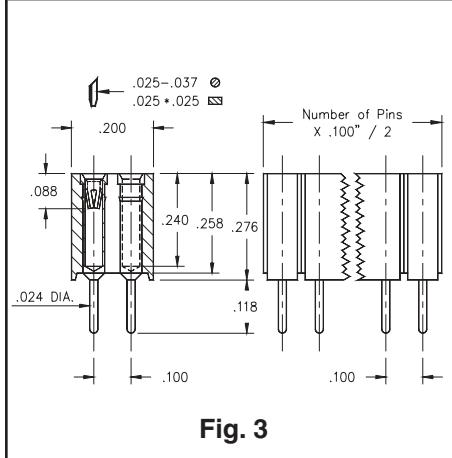
Series 802, 803



- Receptacles accept .030" diameter and .025" square pins such as Series 890 and 892 pin headers.
- Pin interconnects available with straight (M-M# 7007) or right angle (M-M# 5005, 5107) solder tails. (See page 173 for details)
- Sockets are available with straight (M-M# 1304) or right angle (M-M# 1305, 1306) solder tails. (See pages 146 & 147 for details)



Ordering Information



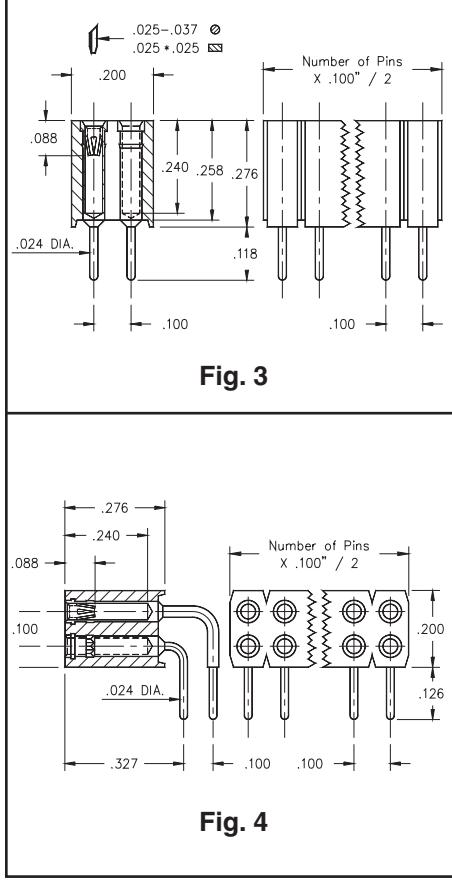
Series 802...10-001 Straight Pin Header

Fig. 1 802-XX-0 _ _ -10-001
 Specify # of pins → 02-64

Series 802...20-001 Right Angle Pin Header

Fig. 2 802-XX-0 _ _ -20-001
 Specify # of pins → 02-64

**XX= Plating Code
See Below**



Series 803...10-001 Straight Socket

Fig. 3 803-XX- _ _ -10-001
 Specify # of pins → 002-100

Series 803...20-001 Right Angle Socket

Fig. 4 803-XX- _ _ -20-001
 Specify # of pins → 002-100

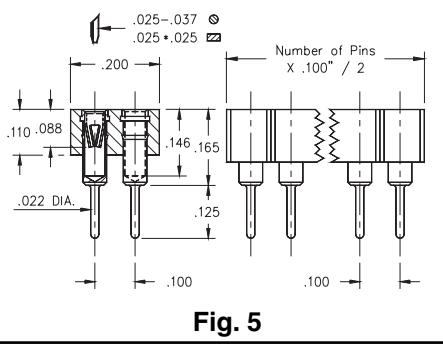
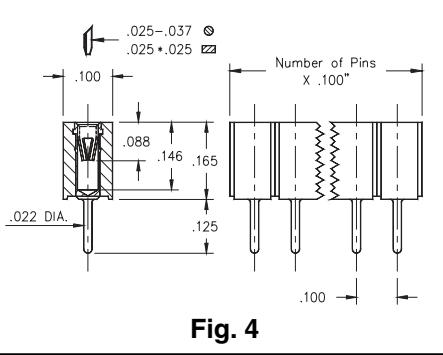
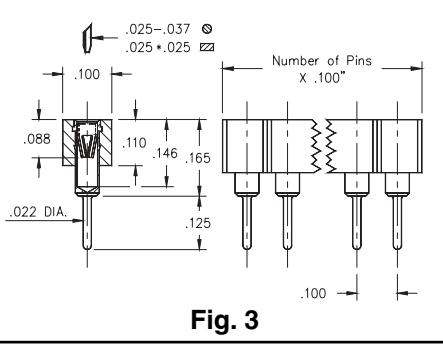
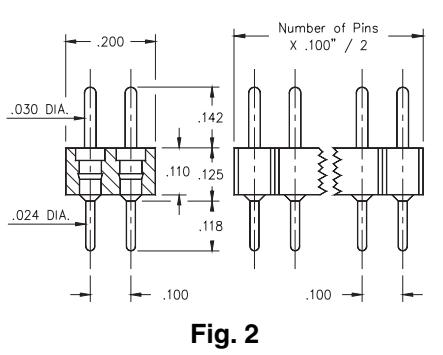
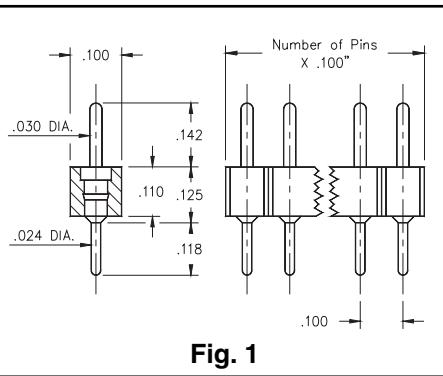
**XX= Plating Code
See Below**

SPECIFY PLATING CODE XX=	10	90		
Pin Plating	10μ" Au	200μ" Sn/Pb		
Series 803...10-001 Straight Socket				
Fig. 3				
803-XX- _ _ -10-001				
Specify # of pins	→	002-100		
Series 803...20-001 Right Angle Socket				
Fig. 4				
803-XX- _ _ -20-001				
Specify # of pins	→	002-100		
SPECIFY PLATING CODE XX=			93	99
Sleeve (Pin)	0	0	200μ" Sn/Pb	200μ" Sn/Pb
Contact (Clip)	0	0	30μ" Au	200μ" Sn/Pb



INTERCONNECTS
.030" dia. Low Profile Pins
Single and Double Row

Series 800, 801
 802, 803



- Receptacles accept .030" diameter and .025" square pins.
- Pin headers use MM# 5016 pins. (See page 173 for details)
- Low profile sockets use MM# 1303 pins. (See page 148 for details)



Ordering Information

Fig. 1	Single Row Low Profile Pin Header	
	800-XX-0 _ -10-002	Specify # of pins → 01-64

Fig. 2	Double Row Low Profile Pin Header	
	802-XX-0 _ -10-002	Specify # of pins → 02-64

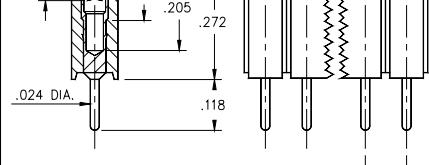
↓		XX= Plating Code See Below
SPECIFY PLATING CODE XX=	10	90
Pin Plating	10μ" Au	200μ" Sn/Pb

Fig. 3	Single Row Low Profile Socket (short insulator)	
	801-XX-0 _ -10-002	Specify # of pins → 01-64

Fig. 4	Single Row Low Profile Socket (long insulator)	
	801-XX-0 _ -10-012	Specify # of pins → 01-36

Fig. 5	Double Row Low Profile Socket	
	803-XX-0 _ -10-002	Specify # of pins → 02-72

↓		XX= Plating Code See Below
SPECIFY PLATING CODE XX=		93
Sleeve (Pin)		200μ" Sn/Pb
Contact (Clip)		30μ" Au
		200μ" Sn/Pb


Fig. 1

- Receptacles accept .037"-.041" diameter pins.
(MM# 1313 receptacles for details see page 149)



Ordering Information

Fig. 1

Single Row

801-XX-0_ _-10-004

Specify # of pins → 01-50

XX=
Plating Code
See Below

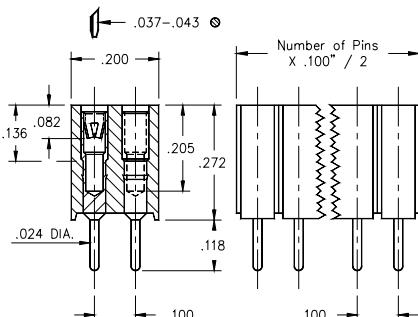
Double Row

Fig. 2

803-XX- _ _-10-004

Specify # of pins → 002-100

XX=
Plating Code
See Below


Fig. 2

SPECIFY PLATING CODE XX=			93	99
Sleeve (Pin)			200µ" Sn/Pb	200µ" Sn/Pb
Contact (Clip)			30µ" Au	200µ" Sn/Pb



INTERCONNECTS
Solderless Press-Fit
Single Row

Series 800, 801

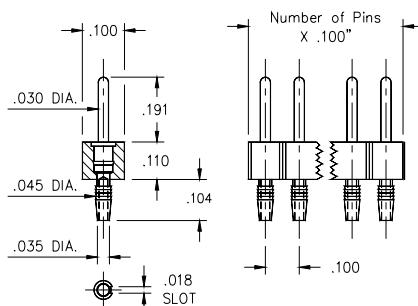


Fig. 1

- The unique compliant tail pins conform to $.040" \pm .003$ finished hole without stressing inner layers.
- Pin headers are offered in two tail lengths for $.060" - .100"$ (MM# 5601) and $.090" - .130"$ (MM# 5602) thick panels. (See page 178 for details)
- Sockets use Hi-Rel, six-finger clips which accept $.030"$ dia. pins and also $.025"$ square pins. (MM# 4614 or 4615). (See page 147 for details)

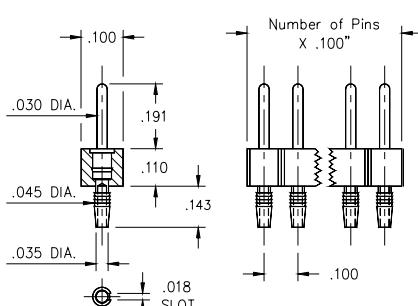


Fig. 2

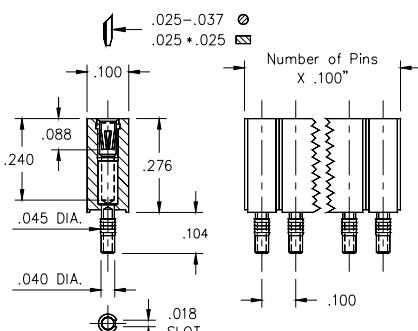


Fig. 3

Fig. 1

Ordering Information

**Compliant Tail Pin Header
for $.060 - .100"$ thick boards**

800-XX-0 _ _-61-001

Specify # of pins → 01-64

Fig. 2

**Compliant Tail Pin Header
for $.090 - .130"$ thick boards**

800-XX-0 _ _-62-001

Specify # of pins → 01-64

XX=

Plating Code See Below

SPECIFY PLATING CODE XX=

10

90

Pin Plating



10 μ " Au

200 μ " Sn/Pb

Fig. 3

**Compliant Tail Socket
for $.060 - .100"$ thick boards**

801-XX-0 _ _-61-001

Specify # of pins → 01-50

Fig. 4

**Compliant Tail Socket
for $.090 - .130"$ thick boards**

801-XX-0 _ _-62-001

Specify # of pins → 01-50

XX=

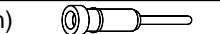
Plating Code See Below

SPECIFY PLATING CODE XX=

93

99

Sleeve (Pin)



200 μ " Sn/Pb

Contact (Clip)



200 μ " Sn/Pb

30 μ " Au

Fig. 4

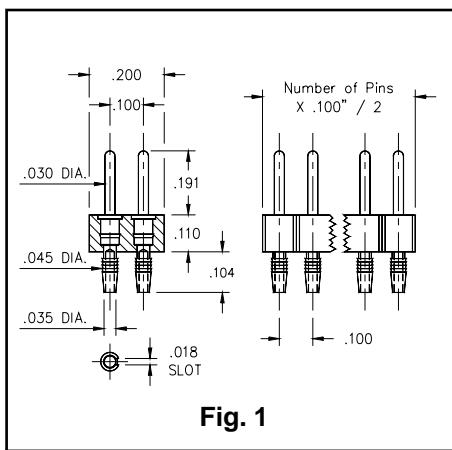


Fig. 1

- The unique compliant tail pins conform to $.040" \pm .003$ finished hole without stressing inner layers.
- Pin headers are offered in two tail lengths for $.060"-.100"$ (M-M# 5601) and $.090"-.130"$ (M-M# 5602) thick panels. (See page 178 for details)
- Sockets use Hi-Rel, six-finger clips which accept $.030"$ dia. pins and also $.025"$ square pins. (M-M# 4614 or 4615). (See page 147 for details)

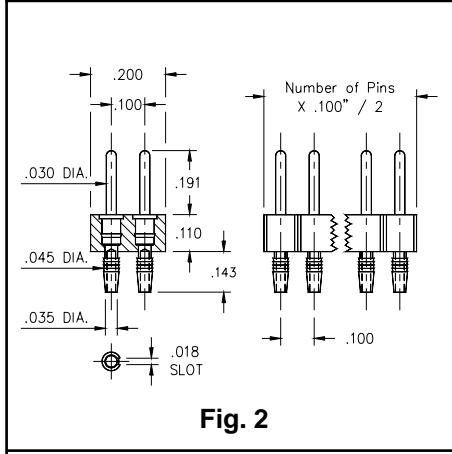


Fig. 2

Ordering Information

Fig. 1

**Compliant Tail Pin Header
for $.060$ - $.100$ " thick boards**

802-XX-0 ____-61-001

Specify # of pins → 02-64

Fig. 2

**Compliant Tail Pin Header
for $.090$ - $.130$ " thick boards**

802-XX-0 ____-62-001

Specify # of pins → 02-64

XX=
Plating Code See Below

SPECIFY PLATING CODE XX=

10

90

Pin Plating

10 μ " Au

200 μ " Sn/Pb

Fig. 3

**Compliant Tail Socket
for $.060$ - $.100$ " thick boards**

803-XX-____-61-001

Specify # of pins → 002-100

Fig. 4

**Compliant Tail Socket
for $.090$ - $.130$ " thick boards**

803-XX-____-62-001

Specify # of pins → 002-100

XX=
Plating Code See Below

SPECIFY PLATING CODE XX=

93

99

Sleeve (Pin)

200 μ " Sn/Pb

Contact (Clip)

200 μ " Sn/Pb

30 μ " Au

200 μ " Sn/Pb

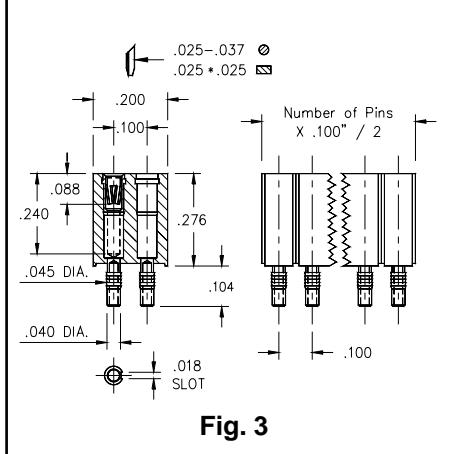


Fig. 3

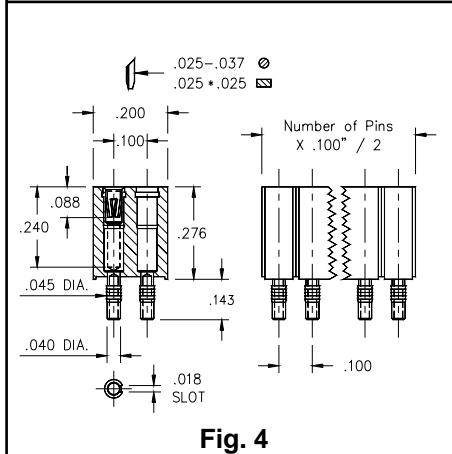


Fig. 4



INTERCONNECTS
.025" Square Pin Headers
Single and Double Row

Series 890, 892

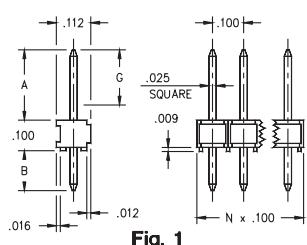


Fig. 1

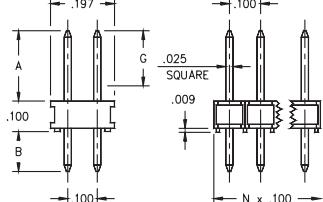


Fig. 2

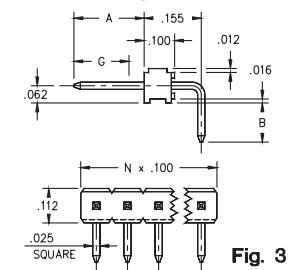


Fig. 3

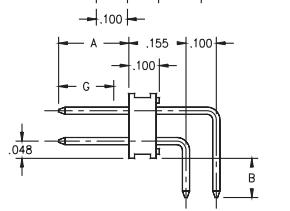


Fig. 4

- Square pin headers may be used as board-to-board interconnects using series 801, 803 socket strips; or as a hardware programming switch with series 999 color coded jumpers.
- Single and double row strips are available with straight or right angle solder tails.
- Current rating is 1 amp.
- Insulator is std. temp. thermoplastic.



PIN LENGTH A	TAIL LENGTH B	LENGTH OF SELECTIVE GOLD G min.	Ordering Information	
			Single Row Fig.1 Vertical Mount	Double Row Fig.2 Vertical Mount
.230	.100	.180	890-XX-XXX-10-802	892-XX-XXX-10-802
.235	.120	.180	890-XX-XXX-10-803	892-XX-XXX-10-803
.230	.205	.180	890-XX-XXX-10-805	892-XX-XXX-10-805
.230	.305	.180	890-XX-XXX-10-806	892-XX-XXX-10-806
.230	.405	.180	890-XX-XXX-10-807	892-XX-XXX-10-807
.230	.505	.180	890-XX-XXX-10-808	892-XX-XXX-10-808
.265	.135	.215	890-XX-XXX-10-800	892-XX-XXX-10-800
.335	.100	.285	890-XX-XXX-10-809	892-XX-XXX-10-809
			Single Row Fig.3 Right Angle	Double Row Fig.4 Right Angle
			.230	.115
			.180	890-XX-XXX-20-902
				892-XX-XXX-20-902
			Specify number of pins XXX: From 002 To 036	Specify total no. of pins XXX: From 004 (2x2) To 072 (2x36)

**XX= Plating Code
See Below**

SPECIFY PLATING CODE XX=	19	39	90	
Pin (Dim 'A')	10 μ " Au	30 μ " Au	150 μ " Sn/Pb	
Tail (Dim 'B')	150 μ " Sn/Pb	150 μ " Sn/Pb	150 μ " Sn/Pb	



SPECIALTY PRODUCTS
Vertical, Relay & Zig-Zag
Sockets

Series 110, 299,
 410

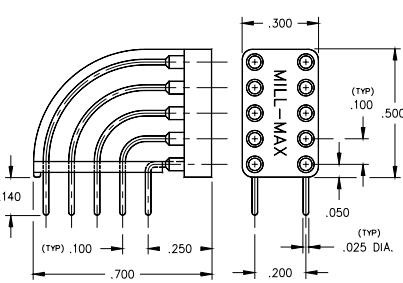


Fig. 1

- Vertical sockets use high temp. thermoplastic insulators.
- Relay sockets accept devices with I/O pins on .100" grid.
- Zig-Zag strip sockets are suitable for IC's and memory chips with staggered double row patterns.
- Insulator is molded PBT polyester.
- Uses MM# 1001 pin.
See page 134 for details.

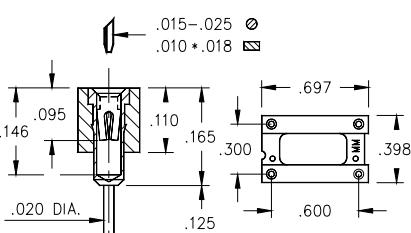


Fig. 2

Fig.	No. of pins	Ordering Information
------	-------------	----------------------

Vertical Mount Display Sockets

1	10	299-99-210-12-001800
---	----	----------------------

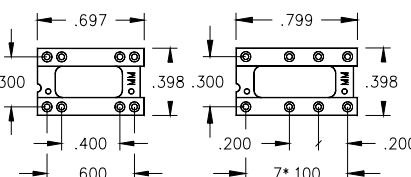


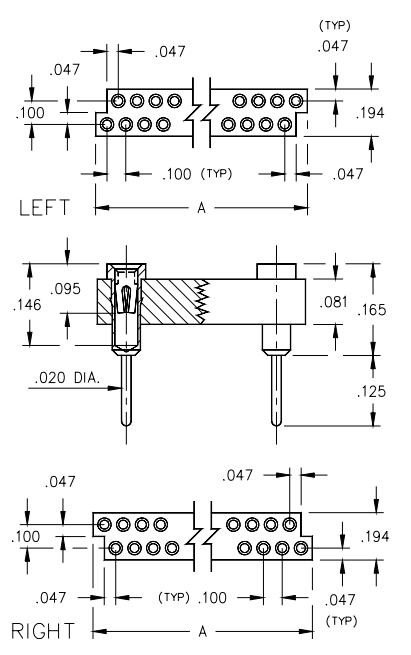
Fig. 3

Selectively Loaded Sockets For Dual-In-Line Relays

2	4	110-93-314-10-001
---	---	-------------------

3	8	110-93-314-10-002
---	---	-------------------

4	8	110-93-316-10-003
---	---	-------------------



Staggered (Zig-Zag) Strip Sockets

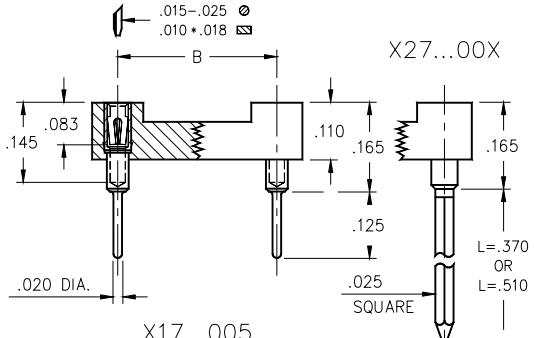
Dim 'A'	No. of pins	Insulator Body	Ordering Information
0.747	14	Left, Stackable	410-93-214-10-001
0.747	14	Right, Stackable	410-93-214-10-002
0.847	16	Left, Stackable	410-93-216-10-001
0.847	16	Right, Stackable	410-93-216-10-002
1.047	20	Left, Stackable	410-93-220-10-001
1.047	20	Right, Stackable	410-93-220-10-002
1.247	24	Left, Stackable	410-93-224-10-001
1.247	24	Right, Stackable	410-93-224-10-002
1.447	28	Left, Stackable	410-93-228-10-001
1.447	28	Right, Stackable	410-93-228-10-002

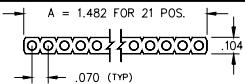
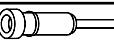
SPECIFY PLATING CODE XX=			93	99
Sleeve (Pin)	○		200μ" Sn/Pb	200μ" Sn/Pb
Contact (Clip)	○		30μ" Au	200μ" Sn/Pb



SPECIALTY PRODUCTS
Shrink DIP Sockets and Strips
Solder Tail and Wrapost

Series 117, 127, 217,
 227, 317, 327

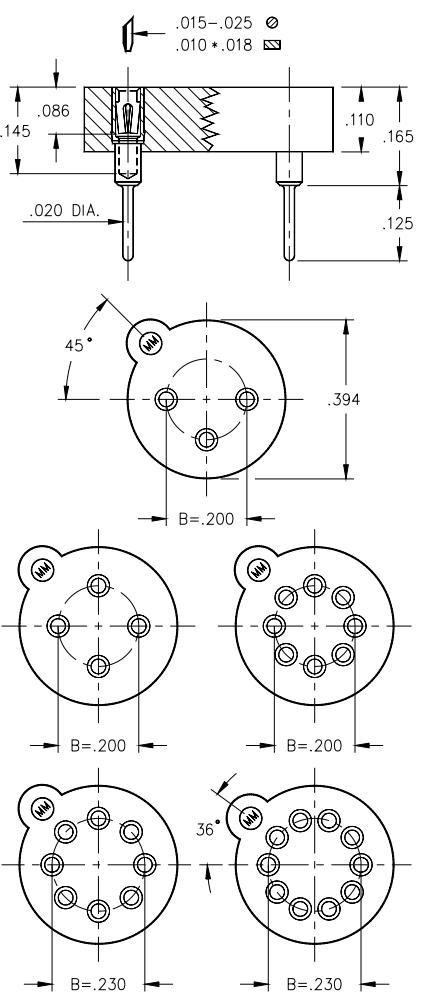
	<ul style="list-style-type: none"> High density DIP sockets and strips for devices featuring .070" lead spacing. Hi-Rel, 4-finger #30 clip is rated at 3 amps. See page 208 for details. Solder tail is MM# 1802 receptacle (see page 138 for details). Wraposts are MM# 1702-2 or 1703-3 pins. See page 162 for details. 	
---	--	---

Total number of pins	Quantity per tube			Ordering Information			
				Solder Tail	2 Level Wrapost L = .370	3 Level Wrapost L = .510	
OPEN FRAME DIP SOCKET							
16	0.572	0.3	0.39	35	117-93-316-41-005	127-93-316-41-002	127-93-316-41-003
28	0.992	0.4	0.49	20	117-93-428-41-005	127-93-428-41-002	127-93-428-41-003
30	1.062	0.4	0.49	18	117-93-430-41-005	127-93-430-41-002	127-93-430-41-003
48	1.692	0.4	0.49	12	117-93-448-41-005	127-93-448-41-002	127-93-448-41-003
20	0.712	0.6	0.69	28	117-93-620-41-005	127-93-620-41-002	127-93-620-41-003
28	0.992	0.6	0.69	20	117-93-628-41-005	127-93-628-41-002	127-93-628-41-003
40	1.412	0.6	0.69	14	117-93-640-41-005	127-93-640-41-002	127-93-640-41-003
42	1.482	0.6	0.69	13	117-93-642-41-005	127-93-642-41-002	127-93-642-41-003
48	1.692	0.6	0.69	12	117-93-648-41-005	127-93-648-41-002	127-93-648-41-003
52	1.832	0.6	0.69	11	117-93-652-41-005	127-93-652-41-002	127-93-652-41-003
56	1.972	0.6	0.69	10	117-93-656-41-005	127-93-656-41-002	127-93-656-41-003
64	2.252	0.6	0.69	9	117-93-664-41-005	127-93-664-41-002	127-93-664-41-003
68	2.392	0.6	0.69	8	117-93-668-41-005	127-93-668-41-002	127-93-668-41-003
64	2.252	0.75	0.84	8	117-93-764-41-005	127-93-764-41-002	127-93-764-41-003
CLOSED FRAME DIP SOCKET							
64	2.252	0.75	0.84	8	217-93-764-41-005	227-93-764-41-002	227-93-764-41-003
				SINGLE ROW STRIP SOCKET			
If desired, we will supply any length up to 21 pins.							
21	1.482				317-93-121-41-005	327-93-121-41-002	327-93-121-41-003
					SPECIFY PLATING CODE XX=		93
					Sleeve (Pin) 		200μ" Sn/Pb
					Contact (Clip) 		30μ" Au

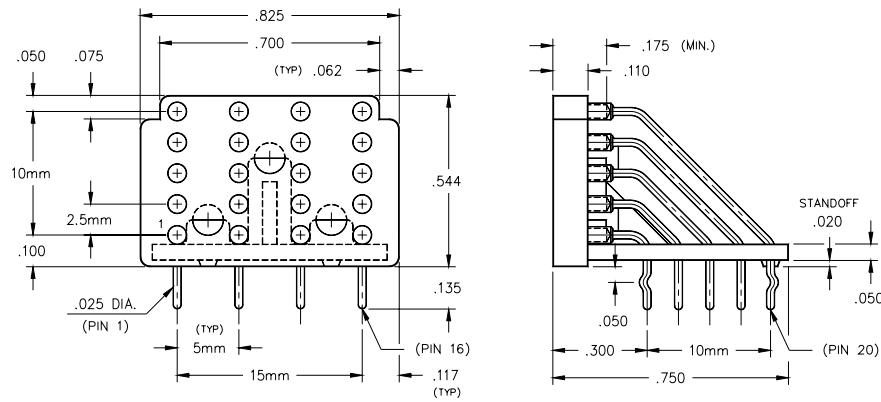
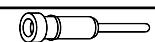
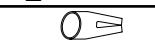
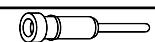
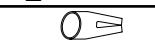
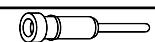
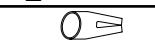


SPECIALTY PRODUCTS
Transistor
& Vertical Mount Sockets

Series 917, 395

	<ul style="list-style-type: none"> Series 917 TO package sockets are available in 3, 4, 8 and 10 pins. Two 8 pin versions feature pin centers on .200" or .230" circle. Uses Mill-Max # 1705 pin, see page 137 for details. Vertical sockets use high temp. thermoplastic insulators. 		
Type	Circle Dia.	No. of Pins	Ordering Information
TO-5	0.200	3	917-XX-103-41-005
TO-5	0.200	4	917-XX-104-41-005
TO-5	0.200	8	917-XX-108-41-005
TO-100	0.230	8	917-XX-208-41-005
TO-100	0.230	10	917-XX-210-41-005
XX= <i>Plating Code See Below</i>			

Vertical Mount Display Sockets

No. of Pins	Ordering Information						
20	594-99-020-01-007032						
							
<table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 50%;">SPECIFY PLATING CODE XX=</td><td style="width: 50%;"></td></tr> <tr> <td>Sleeve (Pin) </td><td></td></tr> <tr> <td>Contact (Clip) </td><td></td></tr> </table>		SPECIFY PLATING CODE XX=		Sleeve (Pin) 		Contact (Clip) 	
SPECIFY PLATING CODE XX=							
Sleeve (Pin) 							
Contact (Clip) 							
<table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 25%;">93</td><td style="width: 25%;">99</td></tr> <tr> <td>200μ" Sn/Pb</td><td>200μ" Sn/Pb</td></tr> <tr> <td>30μ" Au</td><td>200μ" Sn/Pb</td></tr> </table>		93	99	200μ" Sn/Pb	200μ" Sn/Pb	30μ" Au	200μ" Sn/Pb
93	99						
200μ" Sn/Pb	200μ" Sn/Pb						
30μ" Au	200μ" Sn/Pb						



SPECIALTY PRODUCTS
Right Angle Socket
Test Point

Series 395...3XX

	<ul style="list-style-type: none">Available to accept 3 pin sizes: 1, 1.5, & 2mm.Uses Hi-Temp PCT polyester insulator.Insulator available in 10 different colors. (Black is standard)	
--	---	--

Pin Size	Ordering Information
1.0mm	395-XX-101-34-34X000
1.5mm	395-XX-101-03-38X000
2.0mm	395-XX-101-07-35X000

Insulator Color Options

X= 0 - Black *

1 - Brown

2 - Red

3 - Orange

4 - Yellow

5 - Green

6 - Blue

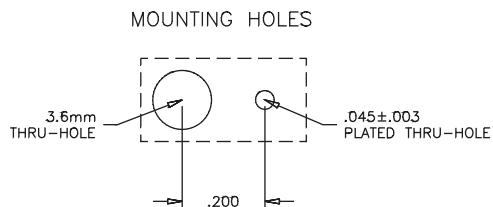
7 - Purple

8 - Gray

9 - White

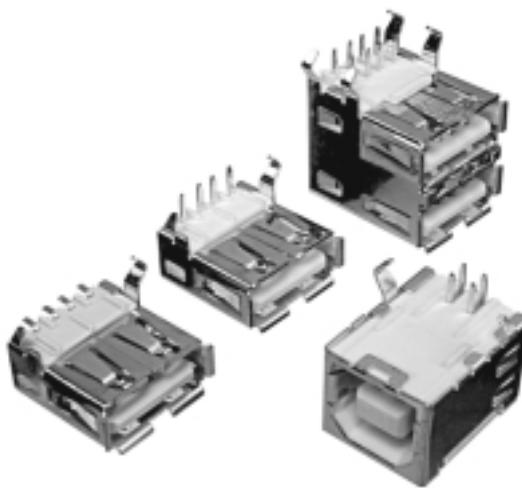
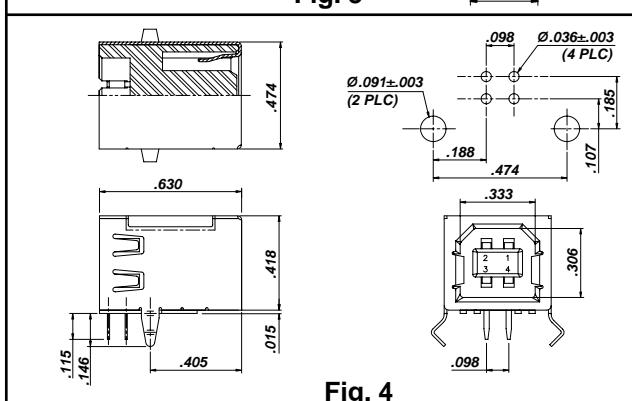
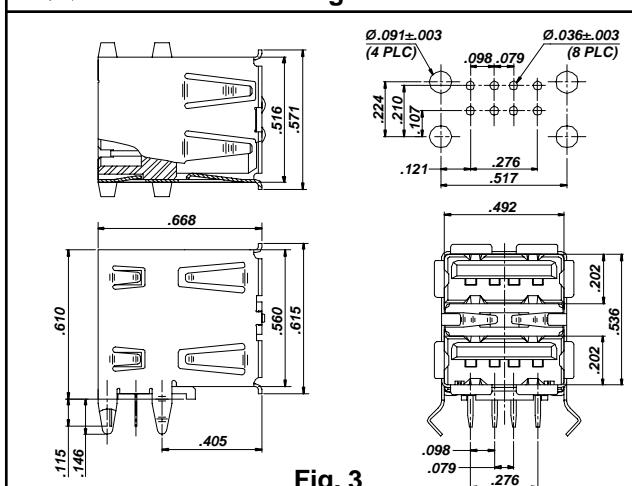
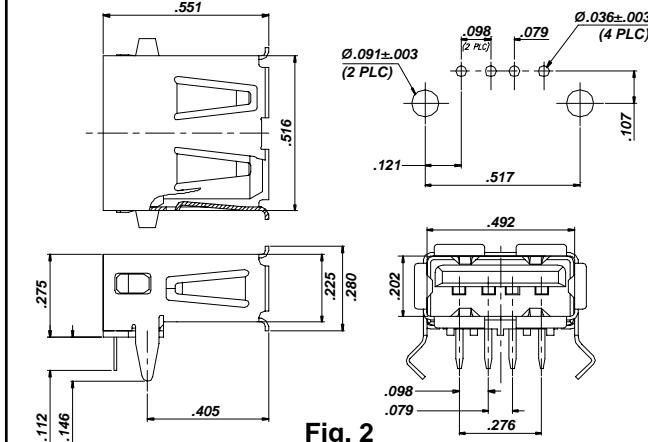
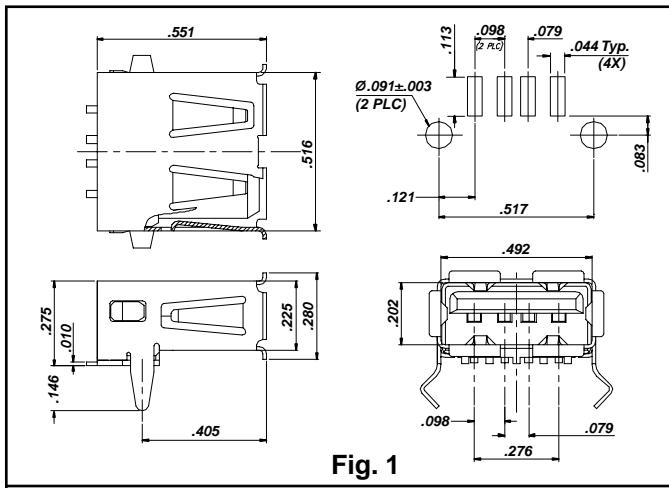
**XX= Plating Code
See Below**

RECOMMENDED MOUNTING HOLES



* Standard

SPECIFY PLATING CODE XX=	13		93	
Sleeve (Pin)	10µ" Au		200µ" Sn/Pb	
Contact (Clip)	30µ" Au		30µ" Au	



Features

- USB receptacles for thru-hole & surface mount.
- Plug retention tabs.
- Kinked locating legs for secure PCB retention.
- Fully compatible with USB 1.0 specification.
- Passes 16MHz Signal Attenuation per ASTM-D-4566.
- Packaged in trays, 150 pieces per tray.

Ordering Information

Figure 1: Type A Receptacle, Single, Surface Mount
896-30-004-00-000

Figure 2: Type A Receptacle, Single, Thru Hole
896-30-004-90-000

Figure 3: Type A Receptacle, Double, Thru Hole
896-30-008-90-000

Figure 4: Type B Receptacle, Single, Thru Hole
897-30-004-90-000

Specifications

Materials:

Shell & contact material: copper alloy
 Shell finish: tin/lead over copper
 Contact finish: 30 μ " selective gold, tin/lead tail
 Housing material: glass filled thermoplastic rated UL94V-0

Ratings:

Voltage: 30VAC (rms)
 Current: 1A max. per contact for 30°C temperature rise
 Thru-hole housings rated at 130°C for wave soldering
 SMT housing rated at 240°C for reflow soldering

Electrical:

Contact resistance: 30m Ω max.
 Insulation resistance: 1000M Ω min.
 Dielectric withstanding voltage: 750VAC at sea level
 Capacitance: 2pF max.

Mechanical:

Random vibration: No discontinuity >1 μ s per EIA 364-28, cond. V, letter A
 Physical shock: No discontinuity >1 μ s per EIA 364-27, condition H
 Durability: 1500 cycles min. per EIA 364-09
 Mating force: 35 Newtons max. per EIA 364-13
 Unmating force: 10 Newtons min. per EIA 364-13

Environmental:

Thermal shock per EIA 364-32, condition I
 Humidity per EIA 364-31, method II, condition A
 Temperature life per EIA 364-17, condition 3, method A



SPECIALTY PRODUCTS

Jumpers & Shunts

Series 999

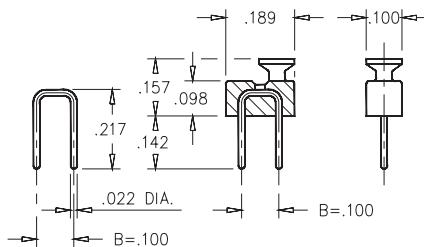


Fig. 1

- Male jumpers are available with or without insulator and have .022" diameter pins with .1", .2" or .3" center spacing.
- Female color coded shunts are offered in closed, and open insulators for longer pins.

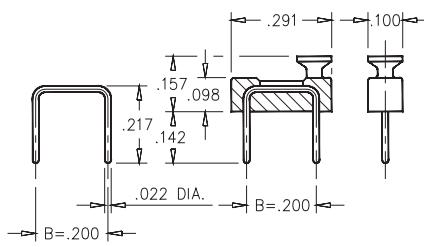


Fig. 2

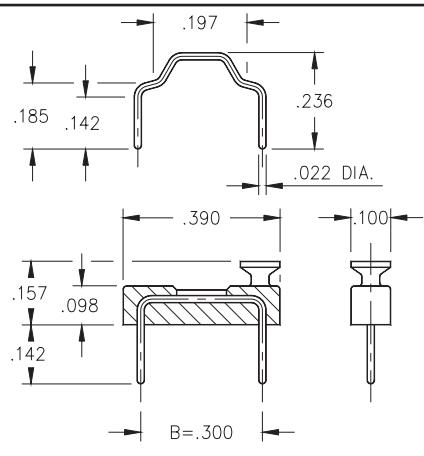


Fig. 3

Fig. 1

Fig. 2

Fig. 3

Ordering Information

Male Jumper .100" Spacing

Platings

Color / Style	10 μ " Au	200 μ " Sn/Pb
Black	999-11-210-10-000	999-11-210-90-000
Red	999-11-210-11-000	999-11-210-91-000
Not Insulated	999-11-110-10-000	999-11-110-90-000

Male Jumper .200" Spacing

Platings

Color / Style	10 μ " Au	200 μ " Sn/Pb
Black	999-11-220-10-000	999-11-220-90-000
Red	999-11-220-11-000	999-11-220-91-000
Not Insulated	999-11-112-10-000	999-11-112-90-000

Male Jumper .300" Spacing

Platings

Color / Style	10 μ " Au	200 μ " Sn/Pb
Black	999-11-230-10-000	999-11-230-90-000
Red	999-11-230-11-000	999-11-230-91-000
Not Insulated	999-11-113-10-000	999-11-113-90-000

SHUNTS For .025" Square Headers

Color Closed Insulator Open Insulator

Black	999-XX-210-00-000	999-XX-310-00-000
Red	999-XX-210-02-000	999-XX-310-02-000
Blue	999-XX-210-06-000	999-XX-310-06-000

Fig. 4 Fig. 5

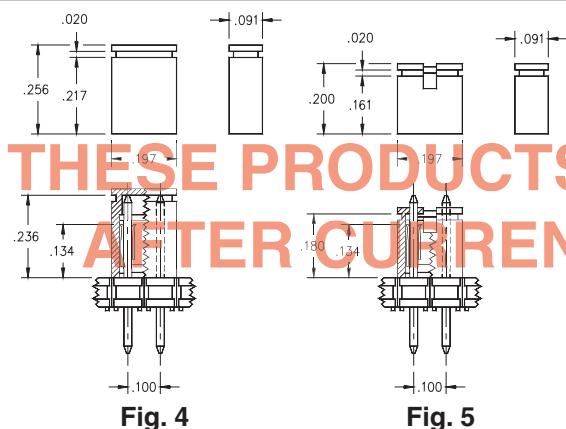


Fig. 4

Fig. 5

Specify Plating Code XX=
19 = 10 μ " Selective Gold

THESE PRODUCTS WILL BE DISCONTINUED
AFTER CURRENT STOCK IS DEPLETED



STANDARD PLCC SOCKETS For Through Board Mount

Series 940

<p>PCB LAYOUT </p>	<ul style="list-style-type: none">• Note: Not end stackable.• Accepts JEDEC PLCCs MS-016 & MS-018 leaded plastic substrates.• Insulator material is glass reinforced PPS.• Standoffs provide clearance for heat dissipation and cleaning.• Internal standoffs insure proper positioning of chip carrier in socket.• Contacts are plated with 150μ" tin/lead.• Pre-lubricated available.	

Application of Pre-Lubricated Sockets:

Intended as a general-purpose lubricant for tin/lead connectors, Nyetact 502M-20-UV is a solvent dispersion of a water-resistant, non-melting grease based on a plastic-compatible, synthetic hydrocarbon oil. Useful temperature range: -40° to 120°C. The active lubricant is present at 20% (by weight) in mineral spirits.

The pre-lubrication increases the reliability of standard sockets by preventing fretting corrosion.

Pre-lubricated sockets can be used for any long life applications having a tin-tin interface.

There is no degradation of lubrication during soldering or final wash. Contact the factory for other pre-lubricated products.

See page 96 for lubrication specifications.

No. of Contacts	A	B	C	Quantity per Tube	Ordering Information
20	0.613	0.200	0.400	38	940-99-020-24-00X
28	0.713	0.300	0.500	33	940-99-028-24-00X
32*	.813/.713	.400/.300	.600/.500	29	940-99-032-24-00X
44	0.913	0.500	0.700	26	940-99-044-24-00X
52	1.013	0.600	0.800	23	940-99-052-24-00X
68	1.213	0.800	1.000	19	940-99-068-24-00X
84	1.413	1.000	1.200	16	940-99-084-24-00X
100	1.603	1.200	1.400	25	940-99-100-24-00X

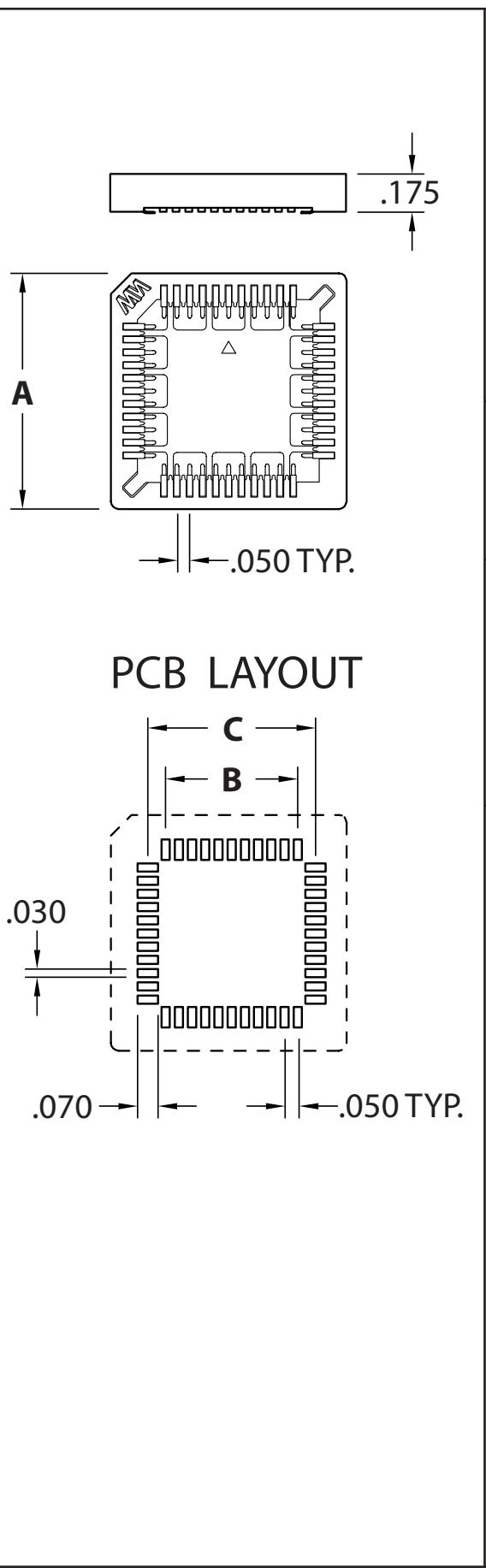
X = 0 Not Lubricated
X = 1 Pre-Lubricated



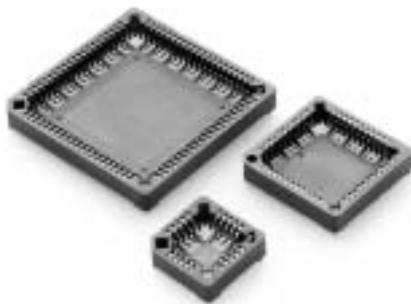
STANDARD PLCC SOCKETS

Surface Mount

Series 940



- Note: Not end stackable.
- Accepts JEDEC PLCCs MO-047 & MO-052.
- Insulator material is glass reinforced PPS.
- Low profile for high density PC board stacking.
- Standoffs provide clearance for heat dissipation and cleaning.
- Contacts are plated with 150 μ " tin/lead.
- Pre-lubricated available. (See page 96 for specs.)



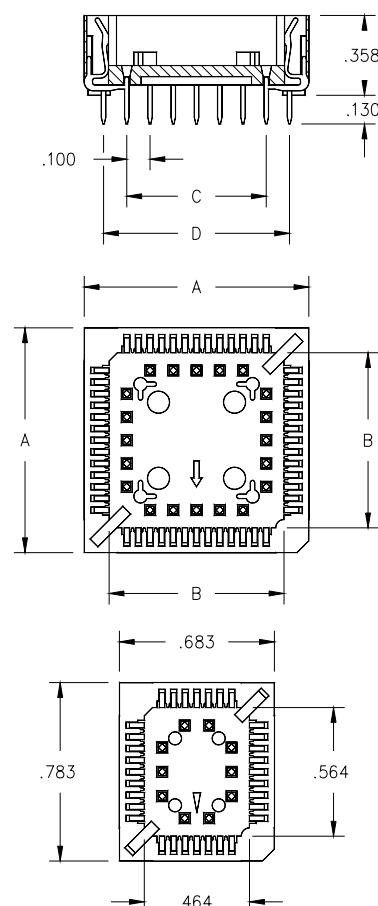
No. of contacts	A	B	C	Ordering Information
20	0.613	0.200	0.334	940-99-020-17-40X00X
28	0.713	0.300	0.434	940-99-028-17-40X00X
32*	.813/.713	.400/.300	.534/.434	940-99-032-17-40X00X
44	0.900	0.500	0.634	940-99-044-17-40X00X
52	1.013	0.600	0.734	940-99-052-17-40X00X
68	1.213	0.800	0.934	940-99-068-17-40X00X
84	1.413	1.000	1.134	940-99-084-17-40X00X

*RECTANGULAR

X = 0 Not Lubricated
X = 1 Pre-Lubricated

X = 0 Tube Packaging
X = 4 Tape and Reel

No. of Contacts	Quantity per Tube	Quantity per Reel
20	32	490
28	27	400
32	24	500
44	21	250
52	19	250
68	16	220
84	14	220

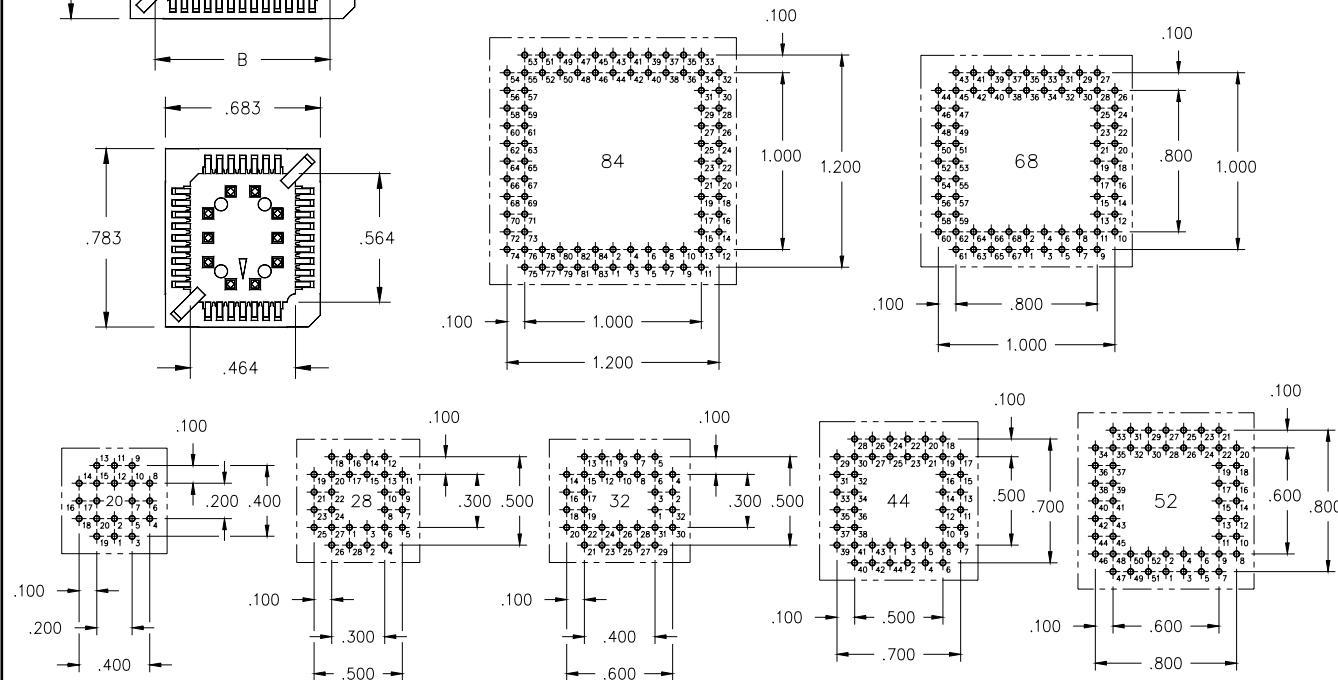
THROUGH BOARD MOUNT


- Note: End stackable.
- Series 540 PLCC sockets are designed to accept JEDEC type MS-016 & MS-018 leaded plastic substrates.
- Body has polarizing features for both substrate and socket insertion.
- Contacts of highly reliable design safely hold the substrate in place by positive spring action.
- PLCC chip extraction tool available. See page 96.


PRINTED CIRCUIT DRILLING PATTERNS

(TOP VIEW)

.030" dia. min. mounting holes



No. of Pins	ORDERING INFORMATION	- A -	- B -	- C -	- D -	Quantity per Tube
20	540-99-020-24-000	.590	.360	.200	.400	41
28	540-99-028-24-000	.690	.460	.300	.500	35
32*	540-99-032-24-000	.783 / .683	.564 / .464	.400 / .300	.600 / .500	24
44	540-99-044-24-000	.890	.660	.500	.700	27
52	540-99-052-24-000	.990	.760	.600	.800	24
68	540-99-068-24-000	1.190	.960	.800	1.000	20
84	540-99-084-24-000	1.390	1.160	1.000	1.200	14

*RECTANGULAR

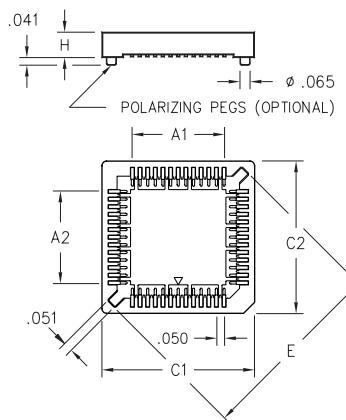
ALL SERIES 540 CONTACTS ARE PLATED TIN/LEAD. SEE PAGE 96 FOR TECHNICAL SPECIFICATIONS.



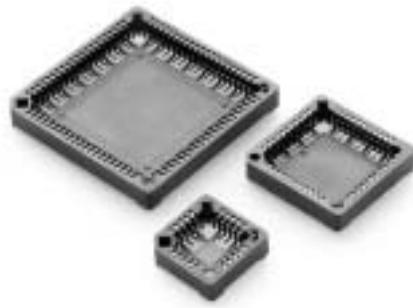
COMPACT PLCC SOCKETS

Surface Mount

Series 540

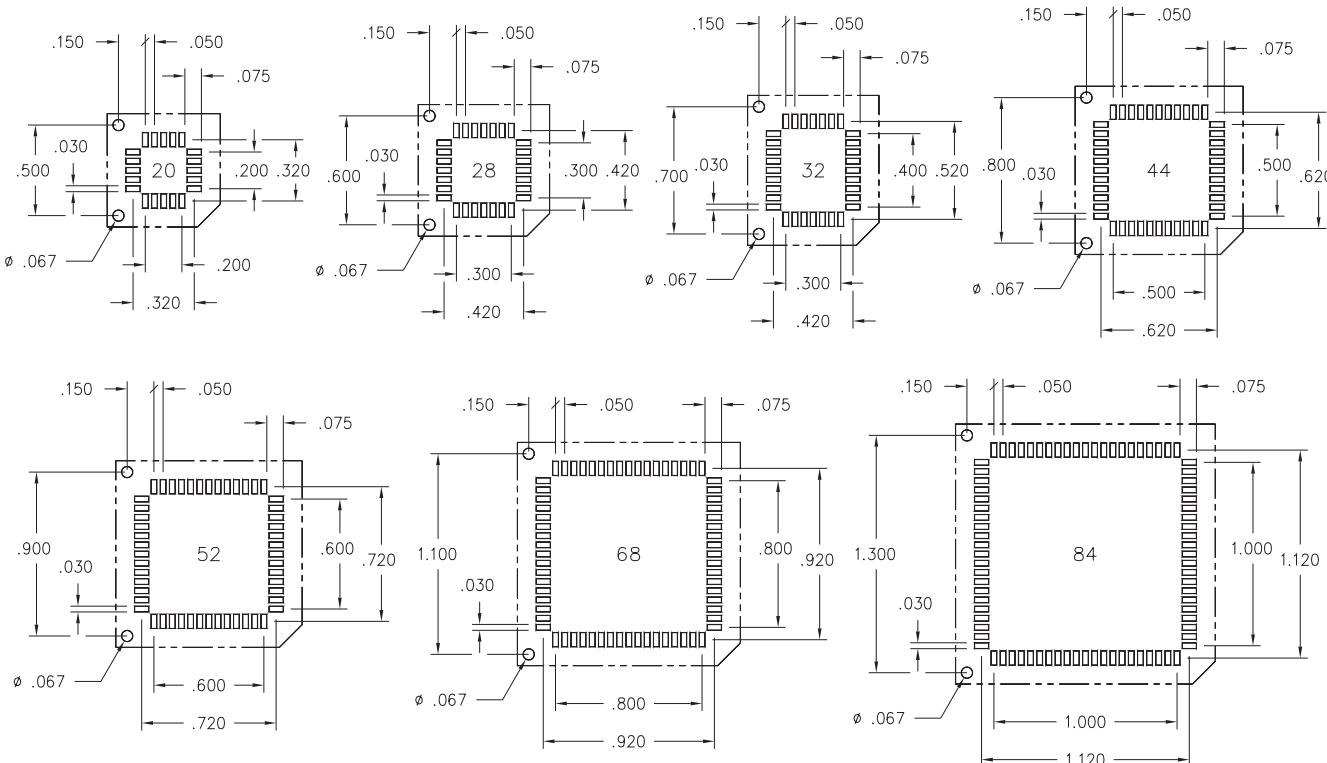


- Note: End stackable.
- Designed for JEDEC type devices.
- Open frame design in solder area improves results of IR soldering and facilitates visual inspection of solder pads.
- The brown PPS (Ryon R-4) insulator has optional polarizing pegs (PP).
- PLCC chip extraction tool available, see page 96.



SURFACE MOUNT

PCB LAYOUT FOR SURFACE MOUNT



AVAILABLE PACKAGED IN TUBES OR ON TAPE AND REEL PER EIA-481

No. of Pins	ORDERING INFORMATION	A1	A2	C1	C2	E	H	Qty. per Tube	Tape Width mm	Qty. per Reel	
20	540-99-020-17-400X0X	.200	.200	.585	.585	.657	.180	34	24	490	
28	540-99-028-17-400X0X	.300	.300	.685	.685	.799	.180	29	32	400	
32*	540-99-032-17-400X0X	*Rectangular	.300	.400	.670	.770	.885	.148	26	32	400
44	540-99-044-17-400X0X		.500	.500	.885	.885	1.082	.180	22	44	250
52	540-99-052-17-400X0X	.600	.600	1.000	1.000	1.224	.180	20	44	250	
68	540-99-068-17-400X0X	.800	.800	1.202	1.202	1.507	.180	16	44	250	
84	540-99-084-17-400X0X	1.000	1.000	1.400	1.400	1.791	.180	14	56	200	

X= 0 Without PP X= 0 Tube Packaged
X= 2 With PP X= 4 Tape and Reel

ALL SERIES 540 CONTACTS ARE PLATED TIN/LEAD. SEE PAGE 96 FOR TECHNICAL SPECIFICATIONS.



TECHNICAL SPECIFICATIONS FOR 940 SERIES PLCC SOCKETS

MATERIALS:

- Insulator: PPS Polyphenylene Sulfide, Rated UL94V-0.
- Contact: Phosphor Bronze with a tin/lead finish and nickel underplate.

MECHANICAL DATA:

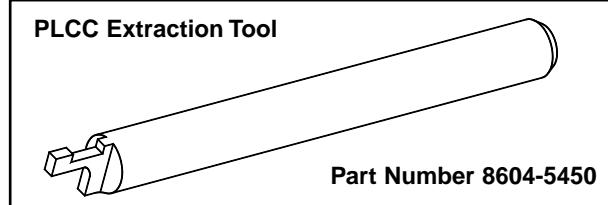
- Contact pressure (per contact): 150 grams min.
- Mechanical data (cycles): 25 cycles min.

ELECTRICAL DATA:

- | | |
|-----------------------------|----------------|
| - Rated current: SMD types: | 1A |
| Thru-hole types: | 1A |
|
 | |
| - Contact resistance: | 30 mΩ max. |
| - Insulation resistance: | 10,000 MΩ min. |
| - Dielectric strength: | 600 VAC |
| - Capacitance: | 1pF max. |

ENVIRONMENTAL DATA:

- | | |
|---|------------------|
| - Operating temperature: | -55/+105 °C |
| - Vibration (No electrical discontinuity greater than 1μs): | 10-2000 HZ, 15 g |
| - Climactic category (EIA): | 365-17A |



TECHNICAL SPECIFICATIONS FOR 540 SERIES PLCC SOCKETS

MATERIALS:

- Insulator: Glass filled thermoplastic, self-extinguishing rated, UL94V-0, color black.
- Contact: Plated copper alloy overall nickel underplating, tin/lead finish.

MECHANICAL DATA:

- Contact pressure (per contact): 150 grams min.
- Mechanical data (cycles): 50 cycles min.

ELECTRICAL DATA:

- | | |
|-----------------------------|---------------|
| - Rated current: SMD types: | 1A |
| Thru-hole types: | 2A |
|
 | |
| - Contact resistance: | 20 mΩ max. |
| - Insulation resistance: | 5,000 MΩ min. |
| - Dielectric strength: | 600 VRMS |
| - Capacitance: | 2pF max. |

ENVIRONMENTAL DATA:

- | | |
|---|------------------|
| - Operating temperature: | -55/+125 °C |
| - Vibration (No electrical discontinuity greater than 1μs): | 10-2000 HZ, 15 g |
| - Climactic category (EIA): | 365-17A |

LUBRICANT SPECIFICATIONS

TYPICAL PROPERTIES OF BASE LUBRICANT NYETACT 502M-20-UV

Base Oil Properties:

Viscosity at 100°C	77 centistokes
Viscosity at 40°C	1015 centistokes
Flash Point	300°C
Pour Point	-29°C
Evaporation Tendency: Conditions	24 hrs. at 150°C
Percent Weight Loss	1%
Density at 20°C	0.85 g/ml
Viscosity Index	158

Grease Properties:

Color	Light Yellow
Dropping Point	Over 260° C (non-melting)
Penetration, Unworked	Over 300
Oil Separation, 24 hrs. at 66°C	4.0%
Evaporation, 24 hrs. at 38°C	None
Specific Gravity at 25°C	0.89

Solvent Characteristics:

Chemical Composition	Mineral Spirits (combustible)
Concentration	80% by weight
Flash Point	38°C (100°F)
Initial Boiling Point	157°C
50% Mid-Boiling Point	172°C
Vapor Pressure at 20°C	2.9mm Hg
Evaporation Rate at 25°C	<0.01 g/cm² /hr
Density at 15.6°C	0.77 g/ml



PIN GRID ARRAY SOCKETS

Technical Specifications

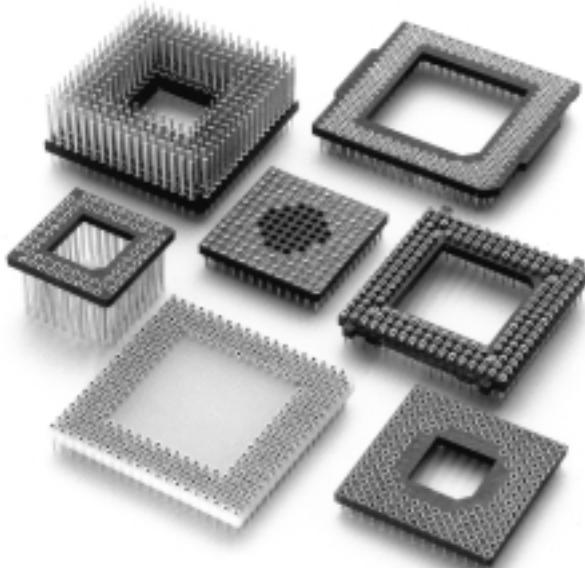
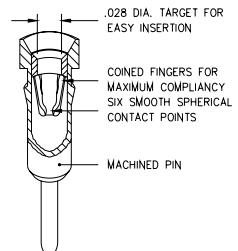
Pin grid array sockets are designed to accept high pin count IC's, they use low force 6-finger contacts to ease insertion/extraction of the device. Standard low force (M-M #32) contact is used for pin counts up to 150, ultra-low force (M-M #35) contact is recommended for 150 pins or more but less than 250 pins. The "ultra lite" (M-M #43) is recommended for 250 pins or more.

PGA sockets all have precision machined pins, this offers the lowest possible profile. The closed bottom design also eliminates flux and solder contamination, and the pins are in-line with contact entry.

Insulator bodies are molded from high temp. PCT polyester suitable for all forms of soldering including wave, infra-red reflow and vapor phase.

Standard pin options are shown on pages 98-105 and standard footprints may be selected from pages 107-111. Use the form on page 106 to specify new footprints and custom assemblies.

CONTACT DETAIL



TECHNICAL SPECIFICATIONS

Materials

-Insulator body:

High Temp. glass-filled thermoplastic polyester (PCT)

Heat deflection temperature (HDT @ 264 PSI) = 254°C(490°F)

Self-extinguishing, rated UL94V-0

-Receptacle (Sleeve):

Screw machined brass (QQ-B-626), plated 10 μ " gold or 200 μ " tin-lead (SnPb 90/10) over 80-120 μ " nickel.

-Pin:

Screw machined brass (QQ-B-626), plated 10 μ " gold or 200 μ " tin-lead (SnPb 90/10) over 80-120 μ " nickel.

-Contact (clip):

Stamped beryllium-copper (QQ-C-533), plated 10 μ " or 30 μ " gold over 80-120 μ " nickel.

Mechanical Data

-Insertion characteristics:

Measured with a polished steel gauge .018 diameter

Low force M-M#32 (01 suffix) typ. insertion force 50 grams

typ. extraction force 30 grams

Ultra-low force M-M#35 (02 suffix) typ. insertion force 25 grams

typ. extraction force 15 grams

"Ultra lite" M-M#43 (03 suffix) typ. insertion force 12.5 grams

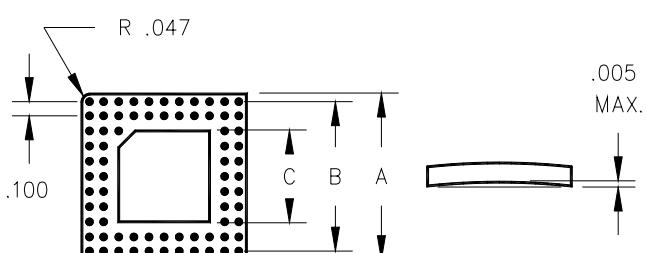
typ. extraction force 7.5 grams

-Mechanical life: 100 cycles min.

Electrical & Environmental Data

-See general specifications on page 4.

DIMENSIONS OF PGA SOCKET INSULATORS



DIMENSIONS A, B, and C can be calculated as follows:

N1 = GRID SIZE (# of pins per side, outer most row only for interstitial patterns)

N2 = WINDOW SIZE

A = N1 X .100"

B = (N1-1) X .100"

C = (N2 X .100") - .016"

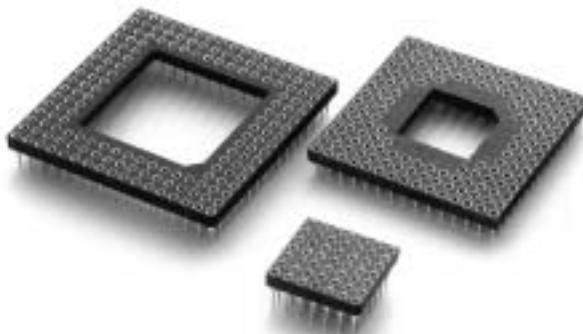


PIN GRID ARRAY SOCKETS

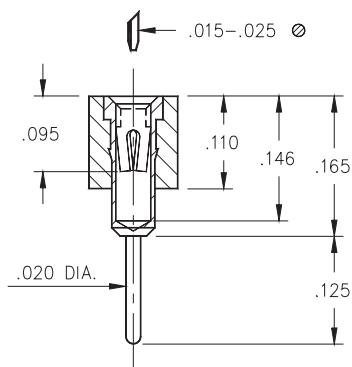
Standard, Long Solder Tail & Low Profile

Series 510, 511, 515

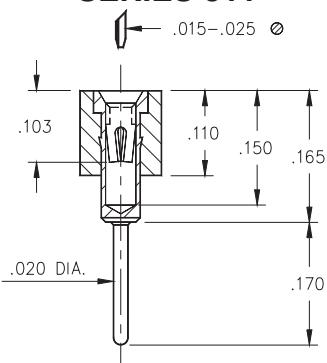
- Series 510, 511, & 515 PGA sockets are available in three solder tail lengths:
standard, long and low profile.
 - Choice of three low force clips to cover all applications.
 - Hi-Temp PCT polyester insulator material suitable for all forms of soldering.



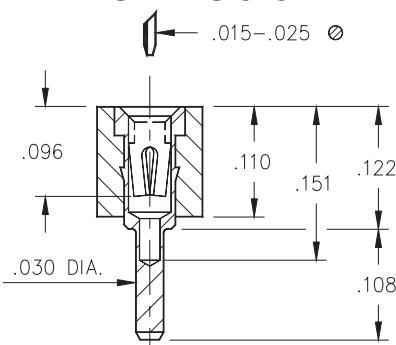
STANDARD SOLDER TAIL SERIES 510



LONG SOLDER TAIL SERIES 511



LOW PROFILE SOLDER TAIL SERIES 515



Ordering Information

1. Select pin type for PGA socket at left (standard, long, or low profile) to determine series number.
 2. Specify 2-digit plating code from chart at bottom of page
 3. Locate footprint pattern from pages 107 to 111, the middle 8 digits of the part number will be located under the pattern.
 4. Determine the last 2 digits of part number from the Contact Chart below.

The diagram illustrates a component label structure with the following fields:

- Series:** 5 1 □
- Plating Code:** □ □ - □ □ □
- No. of pins:** □ □
- Grid size:** □ □
- Window:** □ □ □
- Pattern #:** □ 0
- Clip Type:** □ □

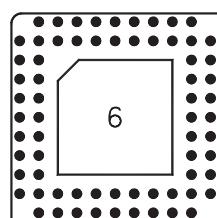
Below the label, the following labels are present:

- No. of pins
- Grid size
- Pattern #

EXAMPLE OF COMPLETE PART NUMBER:

510-93-068-11-061001

This is a 68 pin (11x11 grid) insulator with a .6" square window and fitted with standard solder tail socket pins. Pins are tin plated, inner contacts are Mill-Max #32 and are plated 30μ" gold.



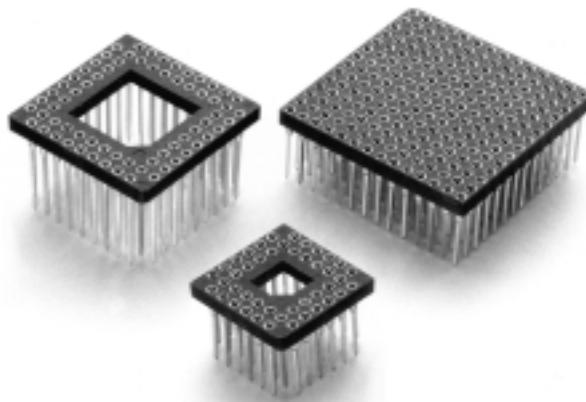
Clip Type	Contact (Clip) Chart
01	Mill-Max #32 clip, standard low force, recommended for devices with less than 150 pins. See page 208 for details.
02	Mill-Max #35 clip, ultra low force, recommended for devices with more than 150 pins, but less than 250 pins. See page 209 for details.
03	Mill-Max #43 clip, "ultra lite", recommended for devices with more than 250 pins. See page 209 for details.



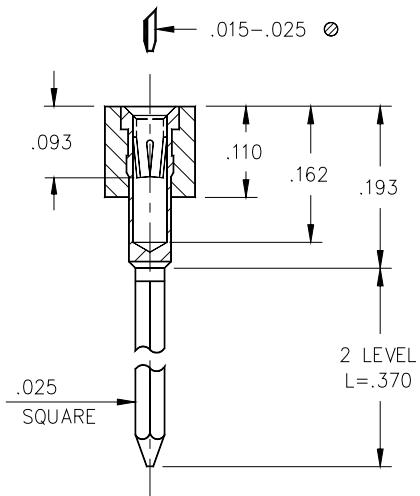
PIN GRID ARRAY SOCKETS
Wrapost

Series 522, 523

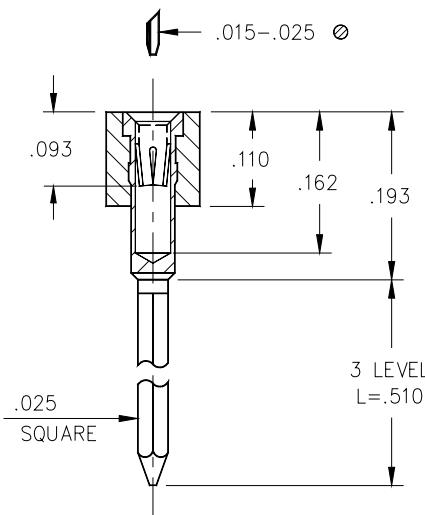
- Series 522 & 523 PGA sockets are available in 2 and 3 level wrapost lengths.
- Choice of three low force clips to cover all applications.
- Hi-Temp PCT polyester insulator material suitable for all forms of soldering.



**2 LEVEL WRAPOST
SERIES 522**

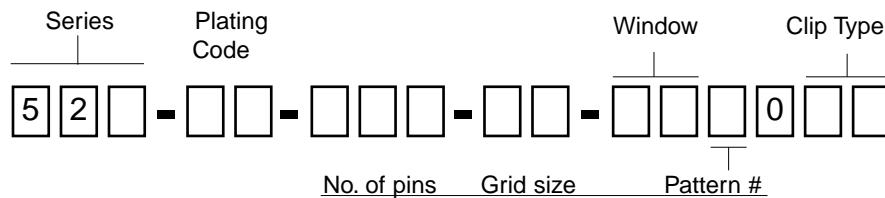


**3 LEVEL WRAPOST
SERIES 523**



Ordering Information

1. Select 2 or 3 Level Wrapost pin at left to determine series number.
2. Specify 2-digit plating code from chart at bottom of page.
3. Locate footprint pattern from pages 107 to 111, the middle 8 digits of the part number will be located under the pattern.
4. Determine the last 2 digits of part number from the Contact Chart below.

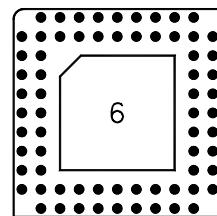


Determined from footprint pattern pages 107 to 111

EXAMPLE OF COMPLETE PART NUMBER:

523-13-068-11-061001

This is a 68 pin (11x11 grid) insulator with a .6" square window and fitted with 3 level wraposts. Pin sleeve is plated 10 μ " gold, inner contacts are Mill-Max #32 and are plated 30 μ " gold.

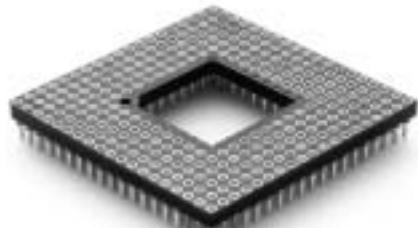
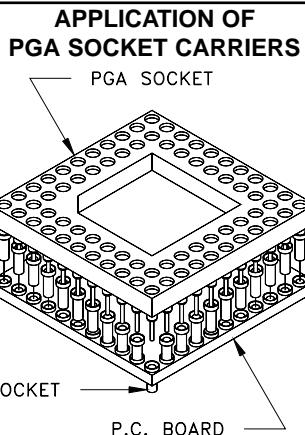


Clip Type	Contact (Clip) Chart		
01	Mill-Max #32 clip, standard low force, recommended for devices with less than 150 pins. See page 208 for details.		
02	Mill-Max #35 clip, ultra low force, recommended for devices with more than 150 pins, but less than 250 pins. See page 209 for details.		
03	Mill-Max #43 clip, "ultra lite", recommended for devices with more than 250 pins. See page 209 for details.		

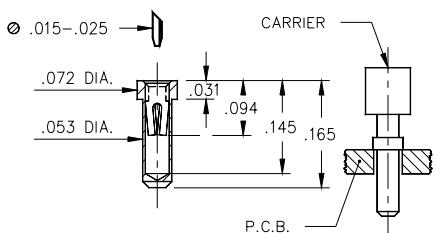
SPECIFY PLATING CODE XX=	13	93	
Sleeve (Pin)	10 μ " Au	200 μ " Sn/Pb	
Contact (Clip)	30 μ " Au	30 μ " Au	



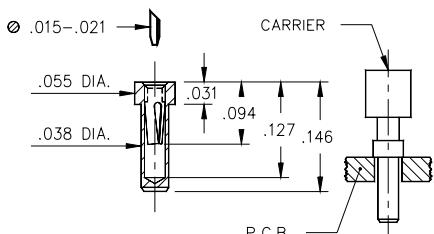
- Series 614 & 605 PGA carrier sockets offer 4 receptacle styles.
 - Many combinations of receptacles and clips to cover all applications.
 - Hi-Temp PCT polyester insulator material suitable for all forms of soldering.
 - Carrier sockets provide a convenient way of loading groups of receptacles onto a PC board.



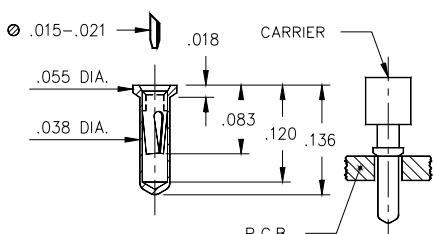
**LOW PROFILE
SERIES 614...001, 002, 003**



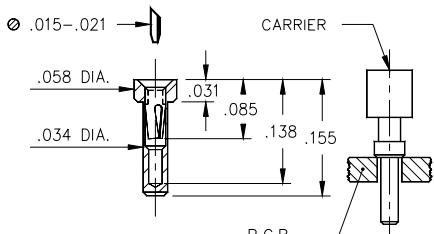
**MINIATURE
SERIES 614...007**



LOWEST PROFILE SERIES 614...012



REDUCED BARREL SERIES 605...048



Ordering Information

1. Select receptacle type at left in combination with receptacle chart below to determine series prefix & suffix numbers.
 2. Specify 2-digit plating code from chart at bottom of page
 3. Locate footprint pattern from pages 107 to 111, the middle 8 digits of the part number will be located under the pattern.

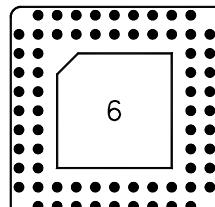
Series Plating Code Window Suffix
 _____ | _____ | _____ |
 6 | | | - | | - | | | - | | | 0 | |
 No. of pins Grid size Pattern #

Determined from footprint pattern pages 107 to 111

EXAMPLE OF COMPLETE PART NUMBER:

614-93-068-11-061001

This is a 68 pin (11x11 grid) insulator with a .6" square window and fitted with low profile receptacles. Pin sleeve is tin plated, inner contacts are Mill-Max #32 and are plated 30 μ " gold.



Suffix	Receptacle/ Clip Chart	• • • • • • •
01	Low Profile Mill-Max #32 clip, standard low force, recommended for devices with less than 150 pins. See page 208 for details.	
02	Low Profile Mill-Max #35 clip, ultra low force, recommended for devices with more than 150 pins, but less than 250 pins. See page 209 for details.	
03	Low Profile Mill-Max #43 clip, "ultra lite", recommended for devices with more than 250 pins. See page 209 for details.	
07	Miniature Mill-Max #21 clip, standard low force. See page 206 for details.	
12	Lowest Profile Mill-Max #21 clip, standard low force. See page 206 for details.	
48	Reduced Barrel Mill-Max #21 clip, standard low force. See page 206 for details.	

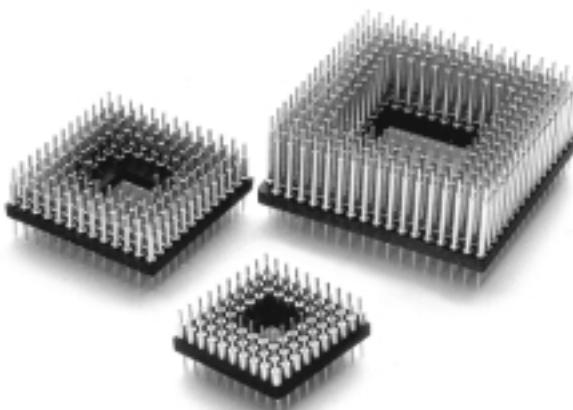
SPECIFY PLATING CODE XX=	13	93	
Sleeve (Pin) 	10μ" Au	200μ" Sn/Pb	
Contact (Clip) 	30μ" Au	30μ" Au	



PIN GRID ARRAY HEADERS
Pin Header Interconnects
Solder Tail

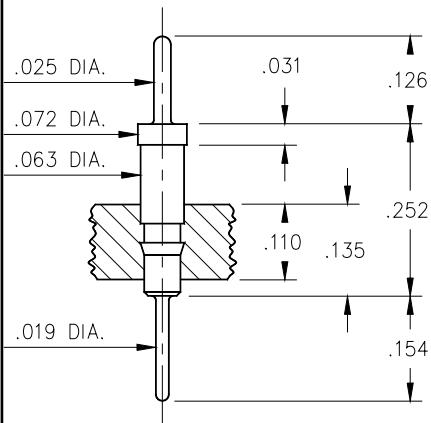
Series 551

- Series 551 PGA Interconnect sockets are available in various lengths with .019" dia. pluggable solder tails at one end and .025" dia. pins at the other.*
- Hi-Temp PCT polyester insulator material suitable for all forms of soldering.

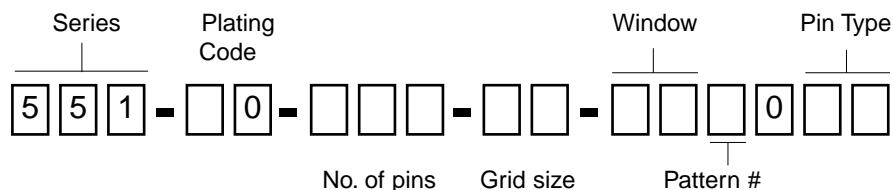


Ordering Information

HEADER PIN TYPE 03

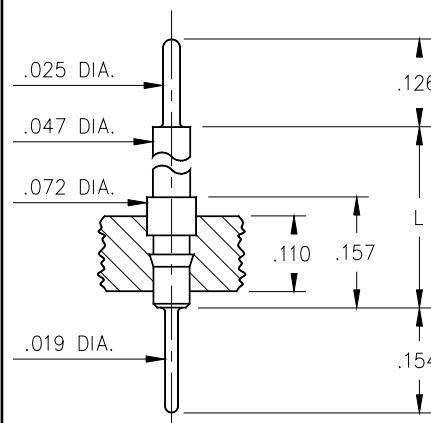


1. Select pin type for PGA header at left to determine 2-digit suffix designation, and enter under pin type.
2. Specify 2-digit plating code from chart at bottom of page.
3. Locate footprint pattern from pages 107 to 111, the middle 8 digits of the part number will be located under the pattern.



Determined from footprint pattern pages 107 to 111

HEADER PIN TYPE 04, 05



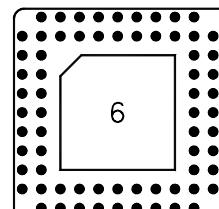
Pin Type

04	For L = .331"
05	For L = .606"

EXAMPLE OF COMPLETE PART NUMBER:

551-10-068-11-061004

This is a 68 pin (11x11 grid) insulator with a .6" square window and fitted with 551...004 header pins. Pins are gold plated.



*Many other printed circuit pins are available for use in addition to those listed above. See pages 170 to 173. Consult Mill-Max Applications Engineers to develop a part number for your specific requirement.

SPECIFY PLATING CODE XX=		10	90		
Pin Plating		10μ" Au	200μ" Sn/Pb		

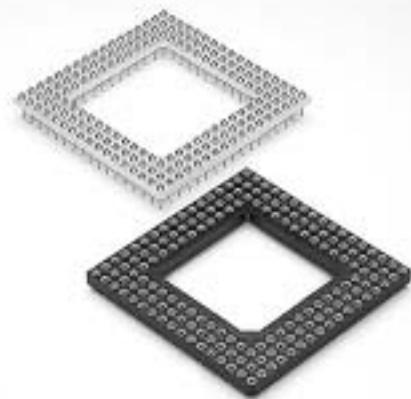
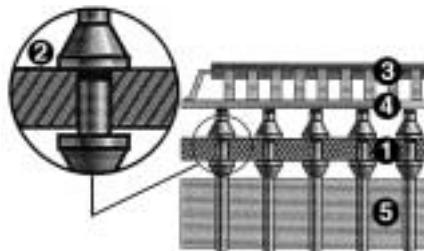


SURFACE MOUNT PIN GRID ARRAYS
For Standard .100" Spacing
Male Pin Header & Female Socket

Series 599, 514

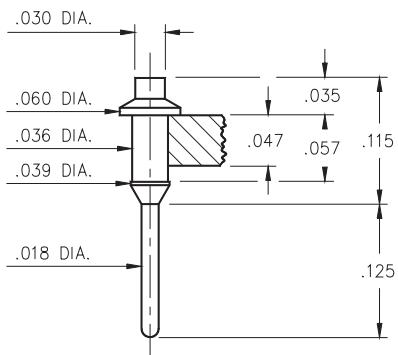
- Series 599 SMT PGA headers and Series 514 SMT PGA sockets are assembled with MM pin# 9976, and receptacle# 1434 respectively. Each floats vertically within the insulator to compensate for uneven solder paste on the PCB. Typical example illustrated.

- 1) "Floating" pin SMT Headers using machined epoxy insulator.
- 2) Detail of "Floating" pins which compensate for unevenly screened solder paste.
- 3) PQFP device
- 4) Translator board
- 5) Existing motherboard



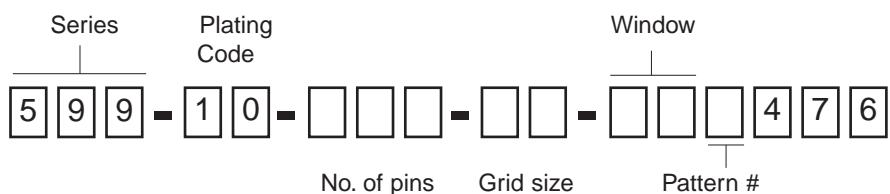
Ordering Information

HEADER TYPE 9976



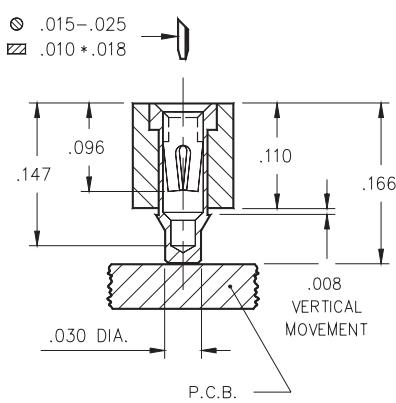
FOR PGA MALE PIN HEADER

1. Locate footprint pattern from pages 107 to 111, the middle 8 digits of the part number will be located under the pattern.



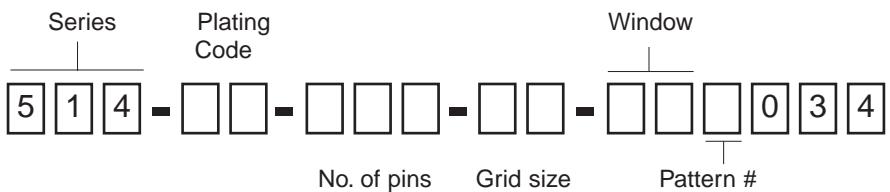
SPECIFY PLATING CODE XX=	10			
Pin Plating		10μ" Au		

SMT RECEPTACLE TYPE 1434



FOR PGA FEMALE SOCKET

1. Specify 2-digit plating code from chart at bottom of page.
2. Locate footprint pattern from pages 107 to 111, the middle 8 digits of the part number will be located under the pattern.



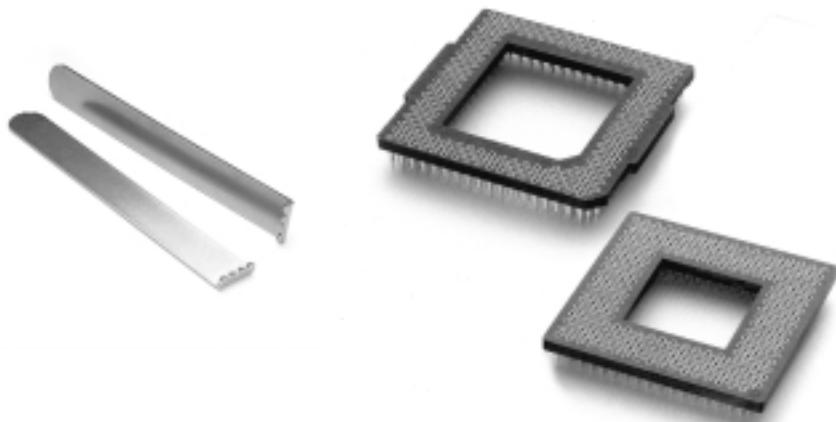
SPECIFY PLATING CODE XX=	91	93	
Sleeve (Pin)		200μ" Sn/Pb	200μ" Sn/Pb
Contact (Clip)		10μ" Au	30μ" Au



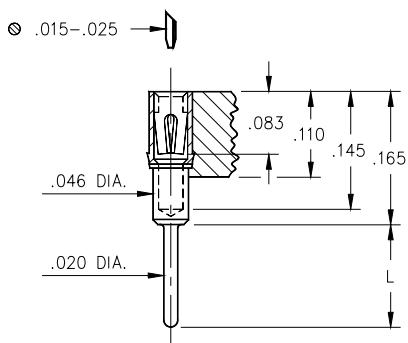
PIN GRID ARRAY SOCKETS
Optional Tabs for Clip-on Heatsink**
Interstitial Pattern

Series 518

- Series 518 Interstitial PGA sockets are available with and without tabs for clip-on heatsinks.
- Mill-Max #43, "Ultra-Lite" contact standard, see page 209 for details.
- Hi-Temp PCT polyester insulator material suitable for all forms of soldering.
- A pry-bar tool is available for extraction (part # 828-01-010).



**SOLDER TAIL SOCKET PIN
(Without Heatsink Tabs)**

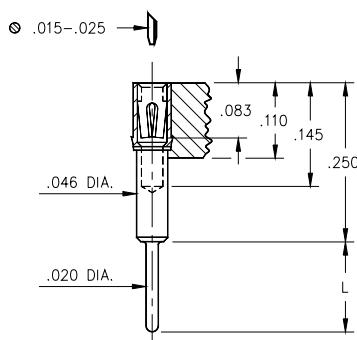


Pin Type

02	For L = .125"
03	For L = .145"
08	For L = .100"

PIN 08 IS USED EXCLUSIVELY IN CERTAIN PATTERNS. SEE CHART "A".

**SOLDER TAIL SOCKET PIN
(With Heatsink Tabs)**



Pin Type

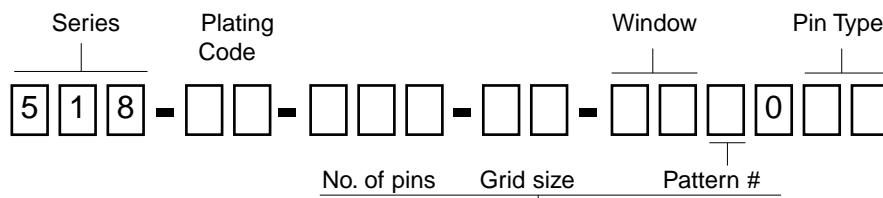
04	For L = .080"
06	For L = .115"

PIN 08 IS USED EXCLUSIVELY IN CERTAIN PATTERNS. SEE CHART "A".

Ordering Information

Interstitial configurations are a .100" grid pattern overlapped with a second, staggered .100" grid pattern thus doubling the package density of the socket.

1. Locate interstitial footprint pattern from pages 107 to 111, the middle 8 digits of the part number will be located under the pattern.
2. Specify 2-digit plating code from chart at bottom of page.
3. Determine the last 2 digits of part number from the pin type at left. For sockets with heatsink tabs, see chart "A" below for pin options.



Determined from footprint pattern pages 107 to 111

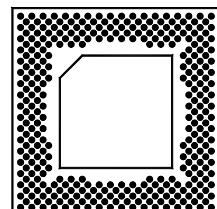
CHART A

FOOTPRINT PATTERN	HEATSINK MFG.	PIN TYPE	NOTE**
296-19-126	THERMALLOY	04, 06	Designed to work with:
296-19-127	THERMALLOY	04, 06	THERMALLOY
320-19-126	THERMALLOY	04, 06	WAKEFIELD
296-19-128	WAKEFIELD	04, 06	AAVID
296-69-129008	SEE NOTE**	08 ONLY	IERC
320-69-129008	SEE NOTE**	08 ONLY	heatsinks & clips.
387-01-016508	SEE NOTE**	08 ONLY	

EXAMPLE OF COMPLETE PART NUMBER:

518-93-325-18-105003

This is a 325 pin interstitial (11x11 grid) insulator with a 1.00" square window and fitted with standard solder tail receptacles. Pin sleeve is tin plated, inner contacts are Mill-Max #43 and are plated 30μ" gold.



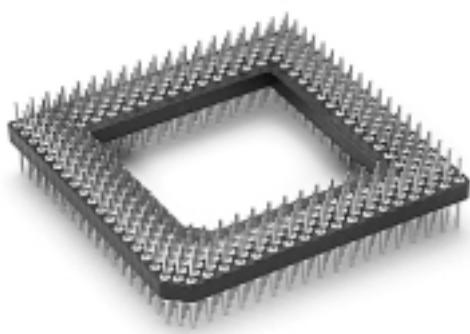
SPECIFY PLATING CODE XX=		13	93	
Sleeve (Pin)		10μ" Au		200μ" Sn/Pb
Contact (Clip)		30μ" Au		30μ" Au



PIN GRID ARRAY HEADERS
For Interstitial Patterns
Solder Tail

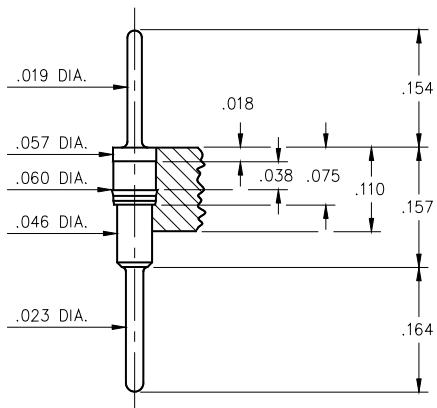
Series 550

- Series 550 Interstitial PGA headers offer tail diameters that can be mated with our 518 & 513 series.
- Hi-Temp PCT polyester insulator material suitable for all forms of soldering.



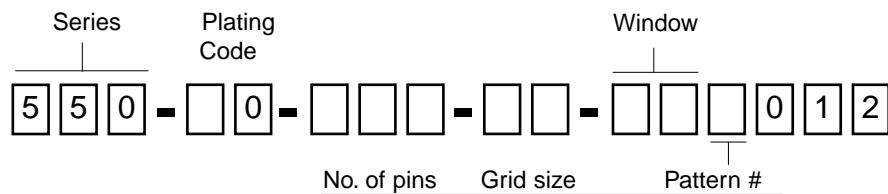
Ordering Information

HEADER PIN TYPE 5012



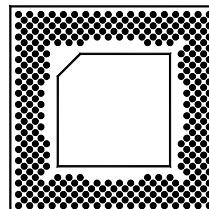
1. Locate footprint pattern from pages 107 to 111, the middle 8 digits of the part number will be located under the pattern.

2. Specify 2-digit plating code from chart at bottom of page.



EXAMPLE OF COMPLETE PART NUMBER:
550-10-325-18-105012

This is a 325 pin (18x18 grid) insulator with a 1.0" square window and fitted with gold plated 5012 header pins.



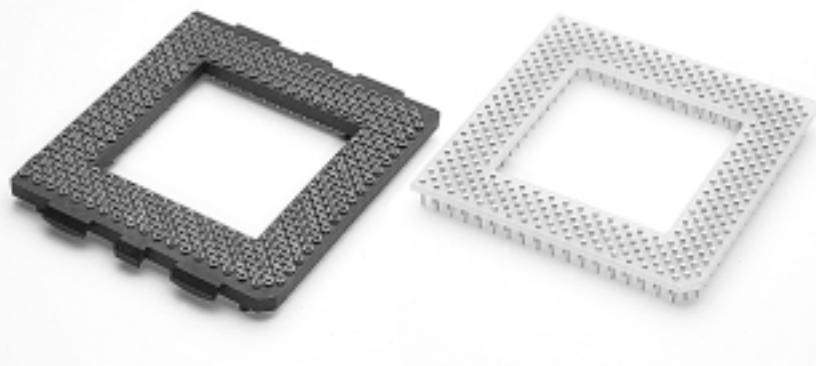
SPECIFY PLATING CODE XX=	10	90		
Pin Plating	10μ" Au	200μ" Sn/Pb		



SURFACE MOUNT PIN GRID ARRAYS
For Interstitial Patterns
Female Socket

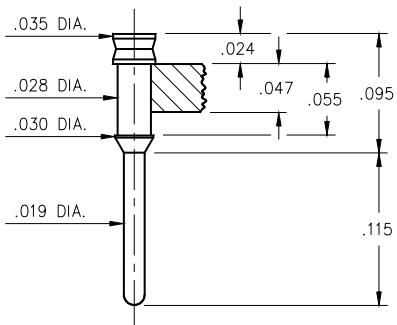
Series 513

- Series 507 SMT Headers "float" in a machined epoxy insulator.
- Series 513 Interstitial PGA surface mount sockets are available with and without tabs for clip-on heatsinks.
- Mill-Max #43, "Ultra-Lite" contact standard, see page 209 for details.
- Hi-Temp PCT polyester insulator material suitable for all forms of soldering.



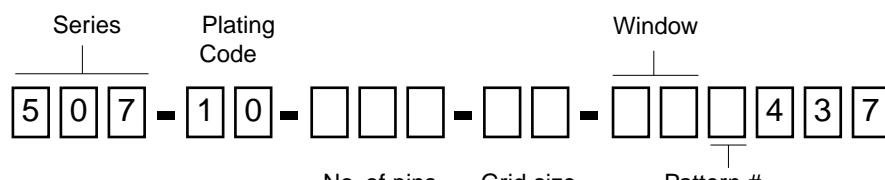
Ordering Information

HEADER PIN TYPE 0737



FOR PGA MALE HEADER

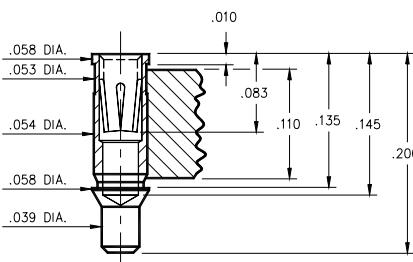
1. Locate footprint pattern from pages 107 to 111, the middle 8 digits of the part number will be located under the pattern.



Determined from footprint pattern pages 107 to 111

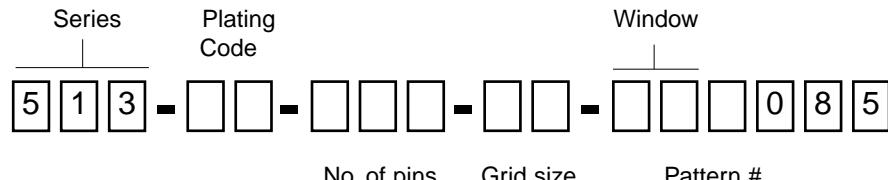
SPECIFY PLATING CODE XX=	10	
Pin Plating		10μ" Au

SMT RECEPTACLE TYPE 1385



FOR PGA FEMALE SOCKET

1. Specify 2-digit plating code from chart at bottom of page.
2. Locate footprint pattern from pages 107 to 111, the middle 8 digits of the part number will be located under the pattern.



Determined from footprint pattern pages 107 to 111

SPECIFY PLATING CODE XX=	93	
Sleeve (Pin)		200μ" Sn/Pb
Contact (Clip)		30μ" Au



CUSTOM PGA WORKSHEET

PHOTOCOPY THIS PAGE AND FAX OR MAIL TO MILL-MAX FOR A PROMPT QUOTATION

FROM:

NAME: _____ **TITLE:** _____

COMPANY _____ **DATE:** _____

ADDRESS _____ **PHONE#:** _____

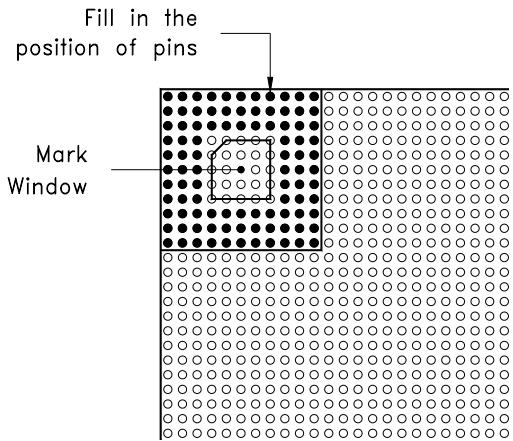
_____ **FAX#:** _____

QUANTITIES TO QUOTE

SEMICONDUCTOR DEVICE USED

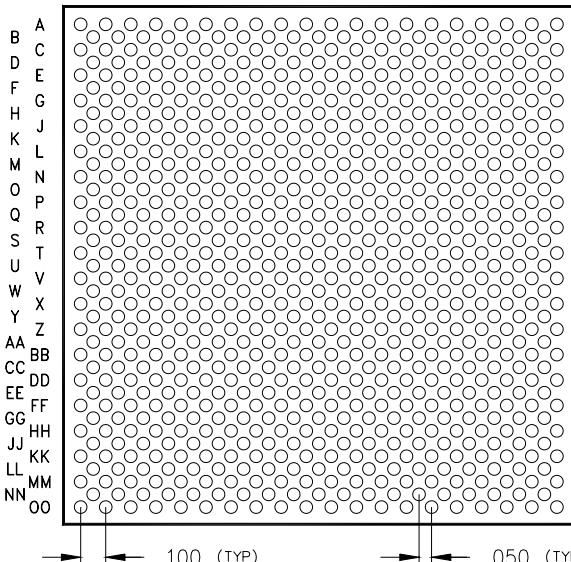
FOR NEW FOOTPRINTS AND ALTERNATE PIN/SOCKET ASSEMBLIES,
FILL IN THE PIN POSITIONS OF THE APPROPRIATE GRID TEMPLATE
AND COMPLETE THE SPECIFICATION INFORMATION TO THE RIGHT.

EXAMPLE:



INTERSTITIAL FOOTPRINT

2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38
1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39



PGA SPECIFICATIONS

1. TYPE OF PGA

- A) STANDARD
B) CARRIER

2. TYPE OF PIN

REFER TO PAGES 98 TO 105

3. PLATING

- SLEEVE
 CONTACT

REFER TO PAGES 98 TO 105
FOR PLATING OPTIONS

4. NUMBER OF PINS

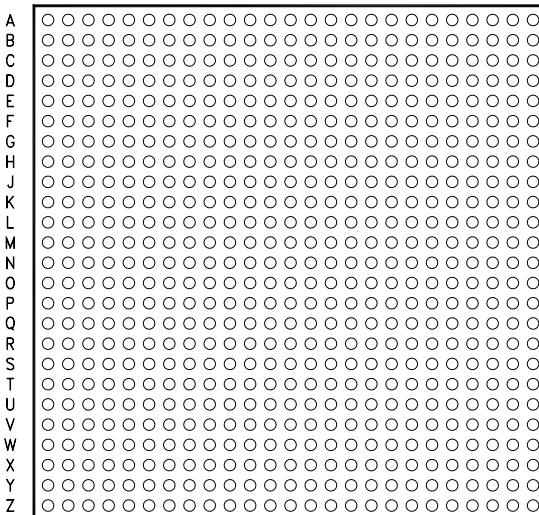
(# OF PINS PER SIDE)

6. IS WINDOW REQUIRED?

YES _____ NO _____

.100" GRID FOOTPRINT

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25



IF YOU NEED ASSISTANCE, PLEASE CALL MILL-MAX AND ASK FOR AN APPLICATIONS ENGINEER



PIN GRID ARRAY FOOTPRINTS

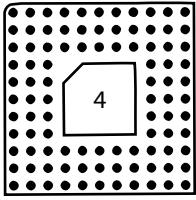
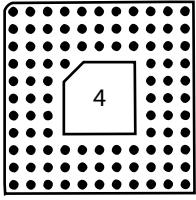
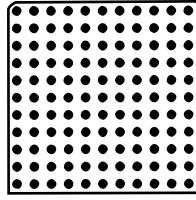
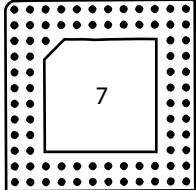
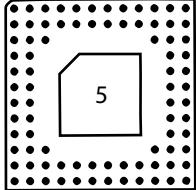
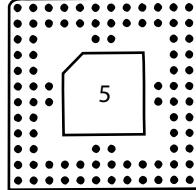
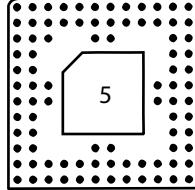
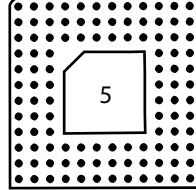
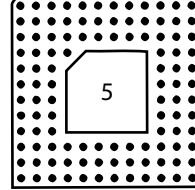
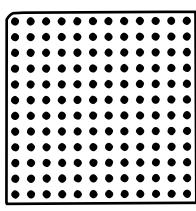
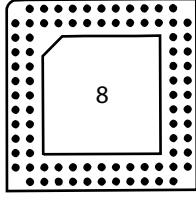
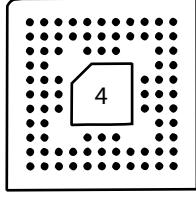
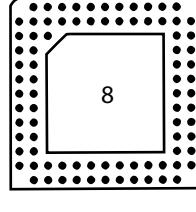
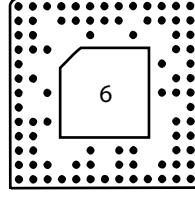
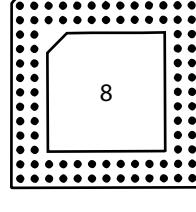
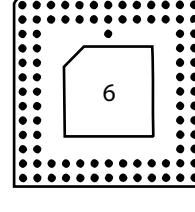
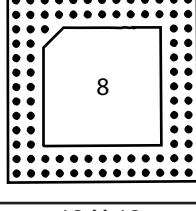
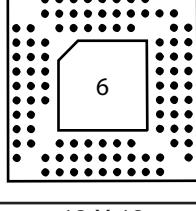
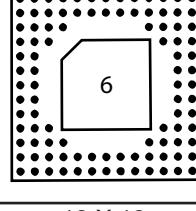
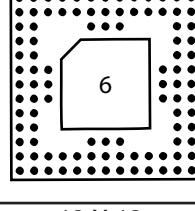
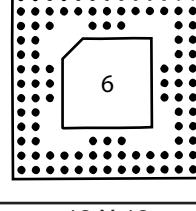
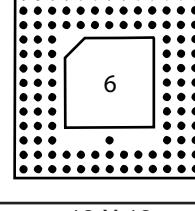
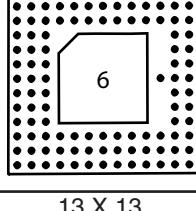
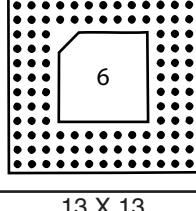
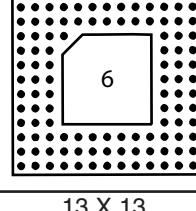
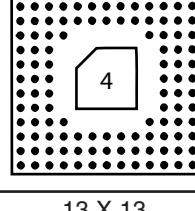
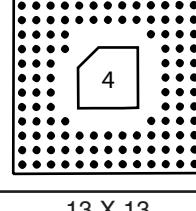
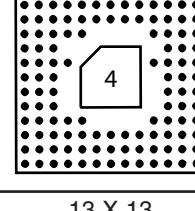
*Top view shown, many other standard and custom footprints available.
Call Mill-Max for details.*

5 X 5	5 X 5	5 X 5		6 X 6	6 X 6
XXX-XX-012-05-001	XXX-XX-022-05-001	XXX-XX-025-05-000		XXX-XX-028-06-005	XXX-XX-036-06-000
7 X 7		8 X 8	8 X 8	8 X 8	
XXX-XX-049-07-000		XXX-XX-044-08-031	XXX-XX-045-08-005	XXX-XX-064-08-000	
9 X 9	9 X 9	9 X 9	9 X 9	9 X 9	
XXX-XX-032-09-041	XXX-XX-052-09-045	XXX-XX-056-09-041	XXX-XX-072-09-001	XXX-XX-081-09-000	
10 X 10					
XXX-XX-064-10-051	XXX-XX-065-10-051	XXX-XX-068-10-041	XXX-XX-084-10-031	XXX-XX-085-10-031	XXX-XX-100-10-000
11 X 11					
XXX-XX-059-11-001	XXX-XX-068-11-061	XXX-XX-069-11-061	XXX-XX-072-11-042	XXX-XX-072-11-061	XXX-XX-073-11-042
11 X 11					
XXX-XX-073-11-061	XXX-XX-076-11-041	XXX-XX-084-11-041	XXX-XX-084-11-045	XXX-XX-085-11-041	XXX-XX-092-11-041



PIN GRID ARRAY FOOTPRINTS

*Top view shown, many other standard and custom footprints available.
Call Mill-Max for details.*

					
11 X 11	11 X 11	11 X 11			
XXX-XX-096-11-041	XXX-XX-097-11-041	XXX-XX-121-11-000			
					
12 X 12	12 X 12	12 X 12	12 X 12	12 X 12	12 X 12
XXX-XX-081-12-071	XXX-XX-084-12-051	XXX-XX-088-12-052	XXX-XX-089-12-051	XXX-XX-108-12-051	XXX-XX-109-12-051
					
12 X 12					
XXX-XX-144-12-000					
					
13 X 13	13 X 13	13 X 13	13 X 13	13 X 13	13 X 13
XXX-XX-084-13-081	XXX-XX-085-13-042	XXX-XX-085-13-081	XXX-XX-088-13-062	XXX-XX-088-13-081	XXX-XX-089-13-061
					
13 X 13	13 X 13	13 X 13	13 X 13	13 X 13	13 X 13
XXX-XX-089-13-082	XXX-XX-098-13-061	XXX-XX-100-13-061	XXX-XX-100-13-062	XXX-XX-101-13-061	XXX-XX-114-13-061
					
13 X 13	13 X 13	13 X 13	13 X 13	13 X 13	13 X 13
XXX-XX-114-13-062	XXX-XX-120-13-061	XXX-XX-121-13-061	XXX-XX-124-13-041	XXX-XX-125-13-041	XXX-XX-128-13-041



PIN GRID ARRAY FOOTPRINTS

*Top view shown, many other standard and custom footprints available.
Call Mill-Max for details.*

13 X 13					
XXX-XX-132-13-041	XXX-XX-133-13-045	XXX-XX-144-13-041	XXX-XX-145-13-041	XXX-XX-154-13-021	XXX-XX-169-13-000
14 X 14					
XXX-XX-124-14-071	XXX-XX-125-14-071	XXX-XX-132-14-071	XXX-XX-133-14-071	XXX-XX-135-14-051	XXX-XX-136-14-051
14 X 14	14 X 14				
XXX-XX-181-14-031	XXX-XX-196-14-000				
15 X 15					
XXX-XX-114-15-063	XXX-XX-121-15-061	XXX-XX-142-15-085	XXX-XX-144-15-082	XXX-XX-145-15-002	XXX-XX-145-15-081
15 X 15					
XXX-XX-149-15-061	XXX-XX-149-15-063	XXX-XX-153-15-061	XXX-XX-156-15-061	XXX-XX-161-15-005	XXX-XX-176-15-061
15 X 15	15 X 15	15 X 15	15 X 15		
XXX-XX-177-15-061	XXX-XX-179-15-041	XXX-XX-181-15-041	XXX-XX-225-15-000		



PIN GRID ARRAY FOOTPRINTS

*Top view shown, many other standard and custom footprints available.
Call Mill-Max for details.*

16 X 16					
XXX-XX-155-16-003	XXX-XX-159-16-105	XXX-XX-173-16-005	XXX-XX-175-16-005	XXX-XX-175-16-006	XXX-XX-256-16-000
17 X 17					
XXX-XX-145-17-001	XXX-XX-168-17-101	XXX-XX-168-17-105	XXX-XX-169-17-101	XXX-XX-181-17-001	XXX-XX-209-17-081
17 X 17	17 X 17	17 X 17			
XXX-XX-240-17-061	XXX-XX-289-17-000	XXX-XX-325-17-105			
18 X 18					
XXX-XX-155-18-121	XXX-XX-179-18-095	XXX-XX-179-18-117	XXX-XX-223-18-095	XXX-XX-223-18-098	XXX-XX-224-18-095
18 X 18	18 X 18	18 X 18	18 X 18		
XXX-XX-225-18-091	XXX-XX-241-18-075	XXX-XX-324-18-000	XXX-XX-391-18-096		
19 X 19					
XXX-XX-238-19-086	XXX-XX-256-19-081	XXX-XX-281-19-081	XXX-XX-296-19-125	XXX-XX-296-19-126	XXX-XX-296-19-127



PIN GRID ARRAY FOOTPRINTS

*Top view shown, many other standard and custom footprints available.
Call Mill-Max for details.*

19 X 19	* 19 X 19 *	19 X 19	* 19 X 19 *	19 X 19	19 X 19
XXX-XX-296-19-128	XXX-XX-296-69-129	XXX-XX-320-19-126	XXX-XX-320-69-129	XXX-XX-321-19-127	XXX-XX-403-19-105
19 X 19	* 19 X 19 *	19 X 19	20 X 20	20 X 20	20 X 20
XXX-XX-370-19-125	XXX-XX-370-69-129	XXX-XX-361-19-000	XXX-XX-299-20-096	XXX-XX-400-20-000	XXX-XX-447-20-115
21 X 21	21 X 21	21 X 21			
XXX-XX-273-21-125	XXX-XX-323-21-005	XXX-XX-441-21-000			
22 X 22					
XXX-XX-383-22-105	XXX-XX-499-22-135	XXX-XX-499-22-136	XXX-XX-503-22-135	XXX-XX-559-22-135	
24 X 24	24 X 24		* 24 X 26 *		4 X 8
XXX-XX-431-24-125	XXX-XX-599-24-125		XXX-XX-387-01-016		XXX-XX-032-01-503

Notes:

* Insulators have standoffs

The PGA patterns illustrated on pages 107 thru 111 are the most common.

Many other patterns have already been produced in small quantities. Call our applications engineers for details.

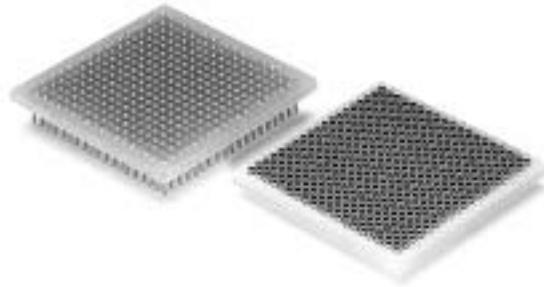
Please note that all drawings are top views.



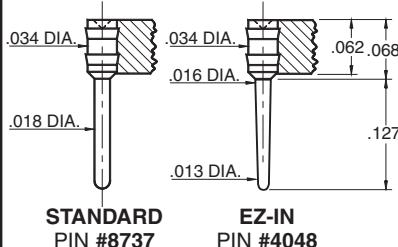
BALL GRID ARRAYS
For .050" Grid
Male Pin Adapters & Female Socket

Series 587, 582

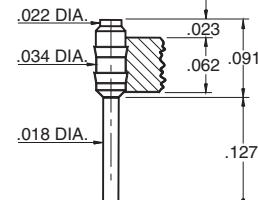
- BGA adapter/socket systems are a reliable way to make BGAs pluggable, they may also be used as a high density board-to-board interconnect.
- The BGA device is soldered to a 8737/4048 adapter (or a 4098/4054 adapter is soldered to a PCB); and then either one can be plugged into a 8214 surface mount socket.
- Both socket and adapter have the same footprint as the BGA device.
- Insertion force is .40N per pin for standard pins 8737/4098. Tapered EZ-IN pins 4048/4054 reduce insertion force to only .08N, and are recommended for pin counts greater than 500. A pry-bar tool (part #828-01-010) is available for extraction.
- Insulator material is FR-4 epoxy having a TCE to match the BGA device and circuit board.
- Mill-Max offers the option of having the solder surfaces of the 4098/4054 adapters and 8214 socket pre-tinned.



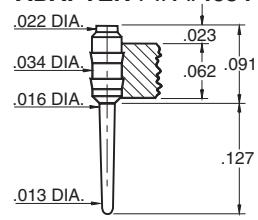
BGA MOUNT ADAPTER PINS



PCB MOUNT STANDARD ADAPTER PIN #4098



PCB MOUNT EZ-IN ADAPTER PIN #4054



Ordering Information

FOR BGA MOUNT ADAPTER PINS

Series	Plating Code	Window
5 8 7	1 0 - □□□□ - □□ - □□□□ 4 3 7	STAN-DARD
5 4 0	1 0 - □□□□ - □□ - □□□□ 4 4 8	EZ-IN PIN

FOR PCB MOUNT STANDARD ADAPTER PIN

5 4 0	1 0 - □□□□ - □□ - □□□□ 4 9 8	
5 9 7	1 0 - □□□□ - □□ - □□□□ 4 1 6	PRE-TINNED

FOR PCB MOUNT EZ-IN ADAPTER PIN

5 4 0	1 0 - □□□□ - □□ - □□□□ 4 5 4	
5 9 7	1 0 - □□□□ - □□ - □□□□ 4 3 0	PRE-TINNED

Determined from footprint pattern pages 113 to 115

PLATING CODE XX=

10

Pin Plating

10 μ " Au

FOR BGA FEMALE SOCKET

Series	Plating Code	Window
5 8 2	1 1 - □□□□ - □□ - □□□□ 4 1 4	
5 9 5	1 1 - □□□□ - □□ - □□□□ 4 2 6	PRE-TINNED

Determined from footprint pattern pages 113 to 115

SPECIFY PLATING CODE XX=

11

Sleeve (Pin)

10 μ " Au

Contact (Clip)

10 μ " Au



BALL GRID ARRAY FOOTPRINTS (.050" GRID)
*Top view shown, many other standard and custom footprints available.
Call Mill-Max for details.*

15 X 15			16 X 16	16 X 16	16 X 16
XXX-XX-225-07-006			XXX-XX-240-08-005	XXX-XX-255-08-005	XXX-XX-256-08-005

		TOP VIEW		
17 X 17	17 X 17		19 X 19	19 X 19
XXX-XX-216-09-005	XXX-XX-289-09-000		XXX-XX-357-09-005	XXX-XX-361-10-005

20 X 20				
XXX-XX-256-10-005	XXX-XX-272-10-005	XXX-XX-292-10-005	XXX-XX-308-10-005	XXX-XX-316-10-005

20 X 20	20 X 20	20 X 20		21 X 21
XXX-XX-336-10-005	XXX-XX-336-10-007	XXX-XX-400-10-005		XXX-XX-441-11-005

				TOP VIEW
23 X 23	23 X 23		24 X 24	
XXX-XX-304-11-005	XXX-XX-329-12-005		XXX-XX-576-12-005	



BALL GRID ARRAY FOOTPRINTS (.050" GRID)
*Top view shown, many other standard and custom footprints available.
Call Mill-Max for details.*

		TOP VIEW	
25 X 25	25 X 25		
XXX-XX-444-13-005	XXX-XX-624-13-005		

26 X 26	26 X 26	26 X 26	26 X 26
XXX-XX-352-13-005	XXX-XX-388-13-005	XXX-XX-456-13-005	XXX-XX-484-13-005

26 X 26		27 X 27	27 X 27
XXX-XX-676-13-005		XXX-XX-416-14-005	XXX-XX-504-14-005

			TOP VIEW
29 X 29	29 X 29	29 X 29	
XXX-XX-480-15-005	XXX-XX-503-15-005	XXX-XX-576-15-007	



BALL GRID ARRAY FOOTPRINTS (.050" GRID)
*Top view shown, many other standard and custom footprints available.
Call Mill-Max for details.*

			TOP VIEW
30 X 30	30 X 30	30 X 30	
XXX-XX-576-15-005	XXX-XX-644-15-005	XXX-XX-656-15-005	

31 X 31		32 X 32	
XXX-XX-520-16-005		XXX-XX-540-16-005	

			TOP VIEW
33 X 33		34 X 34	
XXX-XX-560-17-005		XXX-XX-731-17-005	

35 X 35	35 X 35		
XXX-XX-600-18-005	XXX-XX-652-18-005		



**DIP SOCKETS QUALIFIED
to MIL-S-83734**

MIL SPEC #	MILL-MAX #	MIL SPEC #	MILL-MAX #	MIL SPEC #	MILL-MAX #
M83734/1-010	223-33-306-41-101	M83734/7-010	223-33-628-41-101	M83734/15-010	223-33-964-41-101
M83734/1-011	223-83-306-41-101	M83734/7-011	223-83-628-41-101	M83734/15-011	223-83-964-41-101
M83734/1-012	223-88-306-41-101	M83734/7-012	223-88-628-41-101	M83734/15-012	223-88-964-41-101
M83734/1-025	210-33-306-41-101	M83734/7-028	110-33-628-41-530	M83734/15-028	110-33-964-41-530
M83734/1-026	210-83-306-41-101	M83734/7-029	110-83-628-41-530	M83734/15-029	110-83-964-41-530
M83734/1-027	210-88-306-41-101	M83734/7-030	110-88-628-41-530	M83734/15-030	110-88-964-41-530
M83734/2-010	223-33-308-41-101	M83734/7-031	210-33-628-41-101	M83734/15-031	210-33-964-41-101
M83734/2-011	223-83-308-41-101	M83734/7-032	210-83-628-41-101	M83734/15-032	210-83-964-41-101
M83734/2-012	223-88-308-41-101	M83734/7-033	210-88-628-41-101	M83734/15-033	210-88-964-41-101
M83734/2-028	110-33-308-41-530				
M83734/2-029	110-83-308-41-530	M83734/8-010	223-33-624-41-101	M83734/17-001	221-33-632-41-101
M83734/2-030	110-88-308-41-530	M83734/8-011	223-83-624-41-101	M83734/17-002	221-83-632-41-101
M83734/2-031	210-33-308-41-101	M83734/8-012	223-88-624-41-101	M83734/17-003	221-88-632-41-101
M83734/2-032	210-83-308-41-101	M83734/8-028	110-33-624-41-530	M83734/17-004	222-33-632-41-101
M83734/2-033	210-88-308-41-101	M83734/8-029	110-83-624-41-530	M83734/17-005	222-83-632-41-101
		M83734/8-030	110-88-624-41-530	M83734/17-006	222-88-632-41-101
M83734/3-010	223-33-314-41-101	M83734/8-031	210-33-624-41-101	M83734/17-007	223-33-632-41-101
M83734/3-011	223-83-314-41-101	M83734/8-032	210-83-624-41-101	M83734/17-008	223-83-632-41-101
M83734/3-012	223-88-314-41-101	M83734/8-033	210-88-624-41-101	M83734/17-009	223-88-632-41-101
M83734/3-028	110-33-314-41-530			M83734/17-013	210-33-632-41-101
M83734/3-029	110-83-314-41-530	M83734/9-010	223-33-636-41-101	M83734/17-014	210-83-632-41-101
M83734/3-030	110-88-314-41-530	M83734/9-011	223-83-636-41-101	M83734/17-015	210-88-632-41-101
M83734/3-031	210-33-314-41-101	M83734/9-012	223-88-636-41-101		
M83734/3-032	210-83-314-41-101	M83734/9-031	210-33-636-41-101		
M83734/3-033	210-88-314-41-101	M83734/9-032	210-83-636-41-101		
		M83734/9-033	210-88-636-41-101		
M83734/4-010	223-33-316-41-101				
M83734/4-011	223-83-316-41-101	M83734/10-010	223-33-640-41-101		
M83734/4-012	223-88-316-41-101	M83734/10-011	223-83-640-41-101		
M83734/4-028	110-33-316-41-530	M83734/10-012	223-88-640-41-101		
M83734/4-029	110-83-316-41-530	M83734/10-028	110-33-640-41-530		
M83734/4-030	110-88-316-41-530	M83734/10-029	110-83-640-41-530		
M83734/4-031	210-33-316-41-101	M83734/10-030	110-88-640-41-530		
M83734/4-032	210-83-316-41-101	M83734/10-031	210-33-640-41-101		
M83734/4-033	210-88-316-41-101	M83734/10-032	210-83-640-41-101		
		M83734/10-033	210-88-640-41-101		
M83734/5-010	223-33-318-41-101				
M83734/5-011	223-83-318-41-101	M83734/13-010	223-33-320-41-101		
M83734/5-012	223-88-318-41-101	M83734/13-011	223-83-320-41-101		
M83734/5-028	110-33-318-41-530	M83734/13-012	223-88-320-41-101		
M83734/5-029	110-83-318-41-530	M83734/13-028	110-33-320-41-530		
M83734/5-030	110-88-318-41-530	M83734/13-029	110-83-320-41-530		
M83734/5-031	210-33-318-41-101	M83734/13-030	110-88-320-41-530		
M83734/5-032	210-83-318-41-101	M83734/13-031	210-33-320-41-101		
M83734/5-033	210-88-318-41-101	M83734/13-032	210-83-320-41-101		
		M83734/13-033	210-88-320-41-101		
M83734/6-010	223-33-422-41-101				
M83734/6-011	223-83-422-41-101	M83734/14-010	223-33-648-41-101		
M83734/6-012	223-88-422-41-101	M83734/14-011	223-83-648-41-101		
M83734/6-028	110-33-422-41-530	M83734/14-012	223-88-648-41-101		
M83734/6-029	110-83-422-41-530	M83734/14-028	110-33-648-41-530		
M83734/6-030	110-88-422-41-530	M83734/14-029	110-83-648-41-530		
M83734/6-031	210-33-422-41-101	M83734/14-030	110-88-648-41-530		
M83734/6-032	210-83-422-41-101	M83734/14-031	210-33-648-41-101		
M83734/6-033	210-88-422-41-101	M83734/14-032	210-83-648-41-101		
		M83734/14-033	210-88-648-41-101		



INTERPRETATION OF PRECICONTACT PART NUMBERS

PREFIX	AB ABC ABCD	MIDDLE FIELD XXX XX XXX XX XX XXX	SUFFIX
ALPHA CHARACTERS DESIGNATE THE PRODUCT FAMILY.		SPECIFIES SOCKET SIZE OR DIP SPACING AND NUMBER OF PINS. REPLACE XX or XXX IN THE MILL-MAX # WITH DIGITS FROM THE PRECICONTACT #.	ALPHANUMERIC CODES SPECIFY PIN VARIATIONS SUCH AS TAIL LENGTH, PIN & CONTACT PLATING, CONTACT FORCE, LUBRICATION, TAPE & REEL.
PREFIX	DESCRIPTION		SUFFIX
CL	DIP SOCKET, CLOSED FRAME, CLINCH PIN		PIN PLATING:
CNT-CSO	DIP SOCKET, DISPOSABLE CARRIER		GF = 3 μ " GOLD (stamped contact only)
GSO	QUAD-IN-LINE SOCKET		GH = 10 μ " GOLD
ISO-ISOP	SHRINK-DIP SOCKET, .070" GRID		GK = 30 μ " GOLD
IXP	PGA SOCKET, INTERSTITIAL GRID, NO WINDOW		TB = 150 μ " TIN (stamped contact only)
LED	DIP SOCKET, RIGHT ANGLE, DISPLAY		TL = 150 μ " TIN/LEAD (93/7)
LG•LJ•LL•LQ•LW	DIP SOCKET, CLOSED FRAME, Elevated		SOLDER TAIL LENGTH: A, B, C, D etc.
LTO	DIP SOCKET, STAMPED CONTACT, LOW COST		or WRAP POST LENGTH:
PLCC	PLCC SOCKET, THRU HOLE & SMT, LOW COST		1 = 1 LEVEL (.260")
SC	DIP ADAPTER, CLOSED FRAME, SOLDER TAIL		2 = 2 LEVEL (.360")
SLG•SLJ•SLL•SLQ•SLW	SIP SOCKET, Elevated		3 = 3 LEVEL (.500")
SLO	SIP SOCKET, Low PROFILE		4 = 4 LEVEL (.620")
SO	DIP SOCKET, CLOSED FRAME, SOLDER TAIL		INNER CONTACT TYPE & PLATING:
SOM	DIP SOCKET, CLOSED FRAME, MIL-S-83734		STANDARD, 4-FINGER (Mill-Max #30)
SSB•SSC•SSD•SSF	SIP ADAPTER, SOLDER TAIL		30 = 10 μ " GOLD
SSO	SIP SOCKET, SOLDER TAIL		31 = 30 μ " GOLD
STO	SIP SOCKET, STAMPED CONTACT, LOW COST		53 = 30 μ " GOLD, MIL. SPEC.
SWB•SWC•SWD•SWF	SIP ADAPTER, WRAP POST		36 = 150 μ " TIN/LEAD (93/7)
SWW	SIP SOCKET, WRAP POST		36N = 150 μ " TIN/LEAD (93/7), LUBRICATED
UCL•UCLQ	DIP SOCKET, OPEN FRAME, CLINCH PIN		54 = 100 μ " TIN/LEAD (60/40), MIL. SPEC.
UCO	DIP SOCKET, SOLDER TAIL, WITH CAPACITOR		LOW FORCE, 6-FINGER (Mill-Max #32)
UCW	DIP SOCKET, WRAP POST, WITH CAPACITOR		70 = 10 μ " GOLD
UIXP	PGA SOCKET, INTERSTITIAL GRID, WITH WINDOW		72 = 30 μ " GOLD
UIZP	PGA SOCKET for PENTIUM PRO		76 = 150 μ " TIN/LEAD (93/7)
ULG•ULJ•ULL•ULQ•ULW	DIP SOCKET, OPEN FRAME, Elevated		76N = 150 μ " TIN/LEAD (93/7), LUBRICATED
ULO	DIP SOCKET, OPEN FRAME, Low PROFILE		VERY LOW FORCE, 6-FINGER (Mill-Max #35)
USB A•USB B	UNIVERSAL SERIAL BUS CONNECTOR		22 = 10 μ " GOLD
USB•USC•USD•USF	DIP ADAPTER, OPEN FRAME, SOLDER TAIL		23 = 30 μ " GOLD
USO	DIP SOCKET, OPEN FRAME, SOLDER TAIL		24 = 150 μ " TIN/LEAD (93/7)
USOM	DIP SOCKET, OPEN FRAME, SOLDER TAIL, MIL-S-83734		ULTRA LOW FORCE, 6-FINGER (Mill-Max #43)
UWB•UWC•UWD•UWF	DIP ADAPTER, OPEN FRAME, WRAP POST		11 = 10 μ " GOLD
UWW	DIP SOCKET, OPEN FRAME, WRAP POST		14 = 30 μ " GOLD
UXP•UAXP•UBXP•UCXP	PGA SOCKET, .100" GRID, WITH WINDOW		PLCC SOCKETS:
WW	DIP SOCKET, CLOSED FRAME, WRAP POST		ANS = THRU HOLE
WWM	DIP SOCKET, CLOSED FRAME, WRAP POST, MIL-S-83734		SMT = SURFACE MOUNT
XP•AXP•BXB	PGA SOCKET, .100" GRID, NO WINDOW		TR = TAPE & REEL PACKAGING
ZIP	ZIG-ZAG SOCKET, STANDARD		P = POLARIZING PINS
			N = LUBRICATED



PRECICONTACT to MILL-MAX
Cross Reference List

PRECICONTACT#	MILL-MAX #	PAGE	PRECICONTACT#	MILL-MAX #	PAGE
AXP 13 085 TL A 72	510-93-085-13-001001	108	PLCC XXX TL SMT	940-99-XXX-17-400000	93
BXP 16 175 TL A 23	510-93-175-16-006002	110	PLCC XXX TL SMT N	940-99-XXX-17-401000	93
CL XXX TL A 31	201-93-XXX-41-560		PLCC XXX TL SMT N P	940-99-XXX-17-401200	
CNT XXX GH M 31	694-13-XXX-00-670	36	PLCC XXX TL SMT N TR	940-99-XXX-17-401004	93
CNT XXX GH N 31	694-13-XXX-00-673	36	PLCC XXX TL SMT P	940-99-XXX-17-400200	
CNT XXX GH O 31	694-13-XXX-00-674	36	PLCC XXX TL SMT TR	940-99-XXX-17-400004	93
CNT XXX GH P 31	694-13-XXX-00-671	36	SC XXX GH DKK	242-10-XXX-00-592	44
CNT XXX TL M 30	694-91-XXX-00-670	36	SC XXX GH DUU	242-10-XXX-00-591	44
CNT XXX TL M 31	694-93-XXX-00-670	36	SC XXX GH DVV	242-10-XXX-00-593	44
CNT XXX TL M 36	694-99-XXX-00-670	36	SC XXX GH DYY	242-10-XXX-00-594	44
CNT XXX TL N 30	694-91-XXX-00-673	36	SC XXX GH FAA	250-10-XXX-00-001	37
CNT XXX TL N 31	694-93-XXX-00-673	36	SC XXX TL DKK	242-90-XXX-00-592	44
CNT XXX TL N 36	694-99-XXX-00-673	36	SC XXX TL DUU	242-90-XXX-00-591	44
CNT XXX TL O 30	694-91-XXX-00-674	36	SC XXX TL DVV	242-90-XXX-00-593	44
CNT XXX TL O 31	694-93-XXX-00-674	36	SC XXX TL DYY	242-90-XXX-00-594	44
CNT XXX TL O 36	694-99-XXX-00-674	36	SC XXX TL FAA	250-90-XXX-00-001	37
CNT XXX TL P 30	694-91-XXX-00-671	36	SLG XX GH A 31	316-13-1XX-41-006	47
CNT XXX TL P 31	694-93-XXX-00-671	36	SLG XX TL A 30	316-91-1XX-41-006	47
CNT XXX TL P 36	694-99-XXX-00-671	36	SLG XX TL A 31	316-93-1XX-41-006	47
CSO XXX GH A 31	694-13-XXX-00-672	36	SLG XX TL A 36	316-99-1XX-41-006	47
CSO XXX GH B 31	694-13-XXX-00-675	36	SLJ XX GH A 31	316-13-1XX-41-003	47
CSO XXX GH C 31	694-13-XXX-00-676	36	SLJ XX TL A 30	316-91-1XX-41-003	47
CSO XXX GH D 31	694-13-XXX-00-677	36	SLJ XX TL A 31	316-93-1XX-41-003	47
CSO XXX TL A 30	694-91-XXX-00-672	36	SLJ XX TL A 36	316-99-1XX-41-003	47
CSO XXX TL A 31	694-93-XXX-00-672	36	SLL XX GH A 31	316-13-1XX-41-007	47
CSO XXX TL A 36	694-99-XXX-00-672	36	SLL XX TL A 30	316-91-1XX-41-007	47
CSO XXX TL B 30	694-91-XXX-00-675	36	SLL XX TL A 31	316-93-1XX-41-007	47
CSO XXX TL B 31	694-93-XXX-00-675	36	SLL XX TL A 36	316-99-1XX-41-007	47
CSO XXX TL B 36	694-99-XXX-00-675	36	SLO 0XX GH G 31	315-13-1XX-41-001	46
CSO XXX TL C 30	694-91-XXX-00-676	36	SLO 0XX GH G 31	315-13-1XX-41-003	46
CSO XXX TL C 31	694-93-XXX-00-676	36	SLO 0XX TL G 30	315-91-1XX-41-001	46
CSO XXX TL C 36	694-99-XXX-00-676	36	SLO 0XX TL G 30	315-91-1XX-41-003	46
CSO XXX TL D 30	694-91-XXX-00-677	36	SLO 0XX TL G 31	315-93-1XX-41-001	46
CSO XXX TL D 31	694-93-XXX-00-677	36	SLO 0XX TL G 31	315-93-1XX-41-003	46
CSO XXX TL D 36	694-99-XXX-00-677	36	SLO 0XX TL G 36	315-99-1XX-41-003	46
ISO 94 40 028 TL A 31	117-93-428-41-005	87	SLO 0XX TL G TL	315-99-1XX-41-001	46
ISO 94 60 042 TL A 31	117-93-642-41-005	87	SLQ XX GH A 31	316-13-1XX-41-008	47
ISO 94 75 064 TL A 31	117-93-764-41-005	87	SLQ XX TL A 30	316-91-1XX-41-008	47
IXP 37 321 TL A 14	518-93-321-19-007008	111	SLQ XX TL A 31	316-93-1XX-41-008	47
LED 3XX TL E 31	299-93-3XX-10-001	31	SLQ XX TL A 36	316-99-1XX-41-008	47
LED 6XX TL E 31	299-93-6XX-10-002	31	SLW XX GH A 31	316-13-1XX-41-001	47
LG XXX TL A 31	216-93-XXX-41-006	30	SLW XX TL A 30	316-91-1XX-41-001	47
LJ XXX TL A 31	216-93-XXX-41-003	30	SLW XX TL A 31	316-93-1XX-41-001	47
LL XXX TL A 31	216-93-XXX-41-007	30	SLW XX TL A 36	316-99-1XX-41-001	47
LQ XXX TL A 31	216-93-XXX-41-008	30	SO 314 04 TL A 31	210-93-314-10-001	86
LTO XXX TB B	110-90-XXX-00-000	13	SO XXX GH A 31	210-13-XXX-41-001	22
LW XXX TL A 31	216-93-XXX-41-001	30	SO XXX TL A 31	210-93-XXX-41-001	22
PLCC XXX TL ANS	940-99-XXX-24-000	92	SO XXX TL A 36 N	210-99-XXX-41-361	22
PLCC XXX TL ANS N	940-99-XXX-24-001	92	SOM XXX GH A 53	210-33-XXX-41-101	23
PLCC XXX TL AP	540-99-XXX-24-000	94	SOM XXX TL A 53	210-83-XXX-41-101	23
PLCC XXX TL AP N	540-99-XXX-24-001	94	SOM XXX TL A 54	210-88-XXX-41-101	23



PRECICONTACT to MILL-MAX
Cross Reference List

PRECICONTACT#	MILL-MAX #	PAGE	PRECICONTACT#	MILL-MAX #	PAGE
SSC 0XX GH DKK	342-10-1XX-00-592	61	UBXP 14 133 TL A 72	510-93-133-14-071001	109
SSC 0XX GH DUU	342-10-1XX-00-591	61	UBXP 15 149 TL A 72	510-93-149-15-063001	109
SSC 0XX GH DVV	342-10-1XX-00-593	61	UBXP 16 175 TL A 23	510-93-175-16-096002	110
SSC 0XX GH DYY	342-10-1XX-00-594	61	UBXP 18 223 TL A 23	510-93-223-18-099002	
SSC 0XX GH FAA	350-10-1XX-00-001	62	UCL XXX TL A 31	101-93-XXX-41-560	18
SSC 0XX TL DKK	342-90-1XX-00-592	61	UCLQ XXX TL A 31	101-93-XXX-41-568	18
SSC 0XX TL DUU	342-90-1XX-00-591	61	UCO 0100 XXX GH A 31	110-13-XXX-41-801	21
SSC 0XX TL DVV	342-90-1XX-00-593	61	UCO 0100 XXX TL A 31	110-93-XXX-41-801	21
SSC 0XX TL DYY	342-90-1XX-00-594	61	UCW 0100 XXX GH 2 31	122-13-XXX-41-801	21
SSC 0XX TL FAA	350-90-1XX-00-001	62	UCW 0100 XXX GH 3 31	123-13-XXX-41-801	21
SSD 0XX GH A	380-10-1XX-00-001	62	UCW 0100 XXX TL 2 31	122-93-XXX-41-801	21
SSD 0XX TL A	380-90-1XX-00-001	62	UCW 0100 XXX TL 3 31	123-93-XXX-41-801	21
SSF 0XX GH A	370-10-1XX-00-001	62	UCXP 11 084 TL A 72	510-93-084-11-041001	107
SSF 0XX TL A	370-90-1XX-00-001	62	UCXP 15 149 TL A 72	510-93-149-15-066001	
SSO 0XX GH A 31	310-13-1XX-41-001	46	UIXP 33 325 TL A 14	518-93-325-17-105008	110
SSO 0XX GH C 31	311-13-1XX-41-001	46	UIXP 35 325 TL A 14	518-93-325-18-105008	
SSO 0XX TL A 30	310-91-1XX-41-001	46	UIXP 35 391 TL A 14	518-93-391-18-096008	110
SSO 0XX TL A 31	310-93-1XX-41-001	46	UIXP 37 296 TL A 14	518-93-296-19-125008	110
SSO 0XX TL A TL	310-99-1XX-41-001	46	UIXP 37 320 TL A 14	518-93-320-19-125008	
SSO 0XX TL C 30	311-91-1XX-41-001	46	UIXP 37 321 TL A 14	518-93-321-19-127008	111
SSO 0XX TL C 31	311-93-1XX-41-001	46	UIXP 39 447 TL A 14	518-93-447-20-115008	111
SSO 0XX TL C TL	311-99-1XX-41-001	46	UIXP 41 480 TL A 14	518-93-480-21-125008	
SWB 0XX GH 3	363-10-1XX-00-001	63	UIZP 387 P6 TL A 23	518-93-387-01-016508	111
SWB 0XX TL 3	363-90-1XX-00-001	63	ULG XXX TL A 31	116-93-XXX-41-006	30
SWC 0XX GH 3	353-10-1XX-00-001	63	ULJ XXX TL A 31	116-93-XXX-41-003	30
SWC 0XX TL 3	353-90-1XX-00-001	63	ULL XXX TL A 31	116-93-XXX-41-007	30
SWD 0XX GH 3	383-10-1XX-00-001	63	ULO XXX GH G 31	115-13-XXX-41-003	16
SWD 0XX TL 3	383-90-1XX-00-001	63	ULO XXX TL G 30	115-91-XXX-41-003	16
SWF 0XX GH 3	373-10-1XX-00-001	63	ULO XXX TL G 31	115-93-XXX-41-003	16
SWF 0XX TL 3	373-90-1XX-00-001	63	ULO XXX TL G 36	115-99-XXX-41-003	16
SWW 0XX GH 1 31	321-13-1XX-41-001	49	ULQ XXX TL A 31	116-93-XXX-41-008	30
SWW 0XX GH 2 31	322-13-1XX-41-001	49	ULW XXX TL A 31	116-93-XXX-41-001	30
SWW 0XX GH 3 31	323-13-1XX-41-001	49	USB A 90 S 4 GF	896-30-004-90-000	90
SWW 0XX GH 4 31	324-13-1XX-41-002	49	USB A 90 S 8 GF	896-30-008-90-000	90
SWW 0XX TL 1 31	321-93-1XX-41-001	49	USB B 90 S 4 GF	897-30-004-90-000	90
SWW 0XX TL 2 31	322-93-1XX-41-001	49	USB XXX GH A	160-10-XXX-00-001	38
SWW 0XX TL 3 31	323-93-1XX-41-001	49	USB XXX TL A	160-90-XXX-00-001	38
SWW 0XX TL 4 31	324-93-1XX-41-002	49	USC XXX GH DKK	142-10-XXX-00-592	44
UAXP 11 072 TL A 72	510-93-072-11-061001	107	USC XXX GH DUU	142-10-XXX-00-591	44
UAXP 11 073 TL A 72	510-93-073-11-042001	107	USC XXX GH DVV	142-10-XXX-00-593	44
UAXP 13 085 TL A 72	510-93-085-13-081001	108	USC XXX GH DYY	142-10-XXX-00-594	44
UAXP 13 088 TL A 72	510-93-088-13-062001	108	USC XXX GH FAA	150-10-XXX-00-001	37
UAXP 13 100 TL A 72	510-93-100-13-063001		USC XXX TL DKK	142-90-XXX-00-592	44
UAXP 13 114 TL A 72	510-93-114-13-062001	108	USC XXX TL DUU	142-90-XXX-00-591	44
UAXP 13 132 TL A 72	510-93-132-13-041001	109	USC XXX TL DVV	142-90-XXX-00-593	44
UAXP 14 160 TL A 23	510-93-160-14-055002		USC XXX TL DYY	142-90-XXX-00-594	44
UAXP 15 149 TL A 72	510-93-149-15-015001		USC XXX TL FAA	150-90-XXX-00-001	37
UAXP 15 160 TL A 23	510-93-160-15-065002		USD XXX GH A	180-10-XXX-00-001	40
UAXP 16 175 TL A 23	510-93-175-16-078002		USD XXX TL A	180-90-XXX-00-001	40
UAXP 18 179 TL A 23	510-93-179-18-126002		USF XXX GH A	170-10-XXX-00-001	39
UBXP 11 073 TL A 72	510-93-073-11-061001	107	USF XXX TL A	170-90-XXX-00-001	39



PRECICONTACT to MILL-MAX
Cross Reference List

PRECICONTACT#	MILL-MAX #	PAGE	PRECICONTACT#	MILL-MAX #	PAGE
USO XXX TL A 30	110-91-XXX-41-001	11	UXP 13 088 TL A 72	510-93-088-13-081001	108
USO XXX TL A 31	110-93-XXX-41-001	11	UXP 13 100 TL A 72	510-93-100-13-061001	108
USO XXX TL A 36	110-99-XXX-41-001	11	UXP 13 101 TL A 72	510-93-101-13-061001	108
USO XXX TL A 36 N	110-99-XXX-41-361	11	UXP 13 114 TL A 72	510-93-114-13-062001	108
USO XXX TL B 36 N	111-99-XXX-41-361	14	UXP 13 120 TL A 72	510-93-120-13-061001	108
USO XXX TL C 31	111-93-XXX-41-001	14	UXP 13 121 TL A 72	510-93-121-13-061001	108
USO XXX TL C 36	111-99-XXX-41-001	14	UXP 13 124 TL A 72	510-93-124-13-041001	108
USOM XXX GH A 53	110-33-XXX-41-530	12	UXP 13 125 TL A 72	510-93-125-13-041001	108
USOM XXX TL A 53	110-83-XXX-41-530	12	UXP 13 128 TL A 72	510-93-128-13-041001	108
USOM XXX TL A 54	110-88-XXX-41-530	12	UXP 13 133 TL A 72	510-93-133-13-045001	109
UWB XXX GH 2	162-10-XXX-00-001	38	UXP 13 144 TL A 72	510-93-144-13-041001	109
UWB XXX GH 3	163-10-XXX-00-001	38	UXP 13 145 TL A 72	510-93-145-13-041001	109
UWB XXX TL 2	162-90-XXX-00-001	38	UXP 14 124 TL A 72	510-93-124-14-071001	109
UWB XXX TL 3	163-90-XXX-00-001	38	UXP 14 125 TL A 72	510-93-125-14-071001	109
UWC XXX GH 3	153-10-XXX-00-001	37	UXP 14 132 TL A 72	510-93-132-14-071001	109
UWC XXX TL 3	153-90-XXX-00-001	37	UXP 14 133 TL A 72	510-93-133-14-071001	109
UWD XXX GH 2	182-10-XXX-00-001	40	UXP 14 135 TL A 72	510-93-135-14-051001	109
UWD XXX GH 3	183-10-XXX-00-001	40	UXP 15 142 TL A 72	510-93-142-15-085001	109
UWD XXX TL 2	182-90-XXX-00-001	40	UXP 15 144 TL A 72	510-93-144-15-082001	109
UWD XXX TL 3	183-90-XXX-00-001	40	UXP 15 145 TL A 72	510-93-145-15-081001	109
UWF XXX GH 3	173-10-XXX-00-001	39	UXP 15 146 TL A 72	510-93-146-15-065001	
UWF XXX TL 3	173-90-XXX-00-001	39	UXP 15 149 TL A 72	510-93-149-15-064001	
UWW XXX GH 1 31	121-13-XXX-41-001	28	UXP 15 153 TL A 23	510-93-153-15-061002	109
UWW XXX GH 2 31	122-13-XXX-41-001	28	UXP 15 156 TL A 23	510-93-156-15-061002	109
UWW XXX GH 3 31	123-13-XXX-41-001	28	UXP 15 176 TL A 23	510-93-176-15-061002	109
UWW XXX GH 4 31	124-13-XXX-41-002	28	UXP 15 177 TL A 23	510-93-177-15-061002	109
UWW XXX TL 1 31	121-93-XXX-41-001	28	UXP 15 179 TL A 23	510-93-179-15-041002	109
UWW XXX TL 2 31	122-93-XXX-41-001	28	UXP 15 181 TL A 23	510-93-181-15-041002	109
UWW XXX TL 3 31	123-93-XXX-41-001	28	UXP 15 200 TL A 23	510-93-200-15-045002	
UWW XXX TL 4 31	124-93-XXX-41-002	28	UXP 16 156 TL A 23	510-93-156-16-105002	
UXP 10 064 TL A 72	510-93-064-10-051001	107	UXP 16 172 TL A 72	510-93-16-172-065002	
UXP 10 065 TL A 72	510-93-065-10-051001	107	UXP 16 175 TL A 23	510-93-175-16-067002	
UXP 10 068 TL A 72	510-93-068-10-041001	107	UXP 17 168 TL A 23	510-93-168-17-101002	110
UXP 10 084 TL A 72	510-93-084-10-031001	107	UXP 17 169 TL A 23	510-93-169-17-101002	110
UXP 10 085 TL A 72	510-93-085-10-031001	107	UXP 17 181 TL A 23	510-93-181-17-085002	
UXP 11 065 TL A 72	510-93-065-11-065001		UXP 17 208 TL A 23	510-93-208-17-085002	
UXP 11 068 TL A 72	510-93-068-11-061001	107	UXP 17 209 TL A 23	510-93-209-17-081002	110
UXP 11 069 TL A 72	510-93-069-11-061001	107	UXP 17 225 TL A 23	510-93-225-17-065002	
UXP 11 072 TL A 72	510-93-072-11-042001	107	UXP 17 240 TL A 23	510-93-240-17-061002	110
UXP 11 084 TL A 72	510-93-084-11-045001	107	UXP 18 179 TL A 23	510-93-179-18-125002	
UXP 11 085 TL A 72	510-93-085-11-041001	107	UXP 18 223 TL A 23	510-93-223-18-095002	110
UXP 11 092 TL A 72	510-93-092-11-041001	107	UXP 18 224 TL A 23	510-93-224-18-095002	110
UXP 11 096 TL A 72	510-93-096-11-041001	108	UXP 18 225 TL A 23	510-93-225-18-091002	110
UXP 11 097 TL A 72	510-93-097-11-041001	108	UXP 18 241 TL A 23	510-93-241-18-075002	110
UXP 12 044 TL A 72	510-93-044-12-095001		UXP 19 237 TL A 23	510-93-237-19-085002	
UXP 12 084 TL A 72	510-93-084-12-051001	108	UXP 19 238 TL A 23	510-93-238-19-086002	110
UXP 12 088 TL A 72	510-93-088-12-052001	108	UXP 19 241 TL A 23	510-93-241-19-085002	
UXP 12 089 TL A 72	510-93-089-12-051001	108	UXP 19 256 TL A 14	510-93-256-19-081003	110
UXP 12 108 TL A 72	510-93-108-12-051001	108	UXP 19 257 TL A 14	510-93-257-19-085003	
UXP 12 109 TL A 72	510-93-109-12-051001	108	UXP 19 281 TL A 14	510-93-281-19-081003	110
UXP 13 084 TL A 72	510-93-084-13-081001	108	UXP 20 257 TL A 14	510-93-257-20-115003	



PRECICONTACT to MILL-MAX
Cross Reference List

PRECICONTACT#	MILL-MAX #	PAGE
UXP 21 273 TL A 14	510-93-273-21-125003	111
UXP 8 044 TL A 72	510-93-044-08-031001	107
UXP 9 032 TL A 72	510-93-032-09-041001	107
UXP 9 052 TL A 72	510-93-052-09-045001	107
UXP 9 056 TL A 72	510-93-056-09-041001	107
UXSP 16 176 TL A 23	510-93-176-66-076002	
WW XXX GH 2 31	222-13-XXX-41-001	22
WW XXX GH 3 31	223-13-XXX-41-001	22
WW XXX TL 2 31	222-93-XXX-41-001	22
WW XXX TL 3 31	223-93-XXX-41-001	22
WWM XXX GH 3 53	223-33-XXX-41-101	24
WWM XXX TL 3 53	223-83-XXX-41-101	24
WWM XXX TL 3 54	223-88-XXX-41-101	24
XP 10 100 TL A 72	510-93-100-10-000001	107
XP 11 068 TL A 72	510-93-068-11-001001	
XP 11 121 TL A 72	510-93-121-11-000001	108
XP 12 144 TL A 72	510-93-144-12-000001	108
XP 13 128 TL A 72	510-93-128-13-001001	
XP 13 130 TL A 72	510-93-130-13-005001	
XP 13 169 TL A 23	510-93-169-13-000002	109
XP 14 196 TL A 72	510-93-196-14-000001	109
XP 15 161 TL A 23	510-93-161-15-005002	109
XP 15 225 TL A 23	510-93-225-15-000002	109
XP 16 155 TL A 23	510-93-155-16-003002	110
XP 16 175 TL A 23	510-93-175-16-007002	
XP 16 256 TL A 23	510-93-256-16-000002	110
XP 17 181 TL A 23	510-93-181-17-005002	
XP 17 289 TL A 23	510-93-289-17-000002	110
XP 18 241 TL A 23	510-93-241-18-005002	
XP 18 324 TL A 23	510-93-324-18-000002	110
XP 19 361 TL A 14	510-93-361-19-000003	111
XP 20 400 TL A 14	510-93-400-20-000003	111
XP 21 441 TL A 14	510-93-441-21-000003	111
XP 5 012 TL A 72	510-93-012-05-001001	107
XP 5 022 TL A 72	510-93-022-05-001001	107
XP 5 025 TL A 72	510-93-025-05-000001	107
XP 6 028 TL A 72	510-93-028-06-005001	107
XP 6 036 TL A 72	510-93-036-06-000001	107
XP 7 049 TL A 72	510-93-049-07-000001	107
XP 8 045 TL A 72	510-93-045-08-005001	107
XP 8 064 TL A 72	510-93-064-08-000001	107
XP 9 072 TL A 72	510-93-072-09-001001	107
XP 9 081 TL A 72	510-93-081-09-000001	107
ZIP 0XX TL A 31	410-93-2XX-10-001	86



LOOSE PIN INTERCONNECTS



SPECIFICATION/ CUSTOM CAPABILITIES	PAGE 124
PIN RECEPTACLES	PAGES 125 - 161
	Pin receptacles are individual component lead sockets primarily used for the plugging and unplugging of components on pc boards. Pin receptacles are made by press-fitting a pre-tooled "multi-finger" contact into a precision machined shell. These receptacles will accept round pins ranging in diameter from .012" to .102" as well as square & rectangular component leads.
WRAPOST RECEPTACLES	PAGES 162 - 165
	Wraost receptacles are individual component lead sockets with .025" or .045" square pin termination for wire wrapped interconnection. Wraost receptacles will accept round pins ranging in diameter from .015" to .047" as well as square & rectangular component leads.
PRINTED CIRCUIT PINS	PAGES 166 - 181
	Printed circuit pins are machined, individual pins are used for various plug-in applications and board to board interconnection. They are commonly fastened to pc boards by being press-fit, swaged or soldered.
WRAPOST TERMINALS	PAGES 182 - 185
	Wraost terminals are individual pins .025" or .045" square termination for wire wrapped interconnection. They are commonly fastened to pc boards by being press-fit, swaged or soldered.
SOLDER TERMINALS	PAGES 186 - 202
	Solder terminals are machined terminals used primarily for attaching wires to circuit boards. Turret, slotted and pin types are available. They are commonly swaged (riveted) and soldered to pc boards.
GENERAL CONTACT INFORMATION / DATA	PAGES 203 - 215
CUSTOM PIN / RECEPTACLE WORKSHEET	PAGE 216
INDEX	PAGES 217 - 220

THE BASIC RECEPTACLE

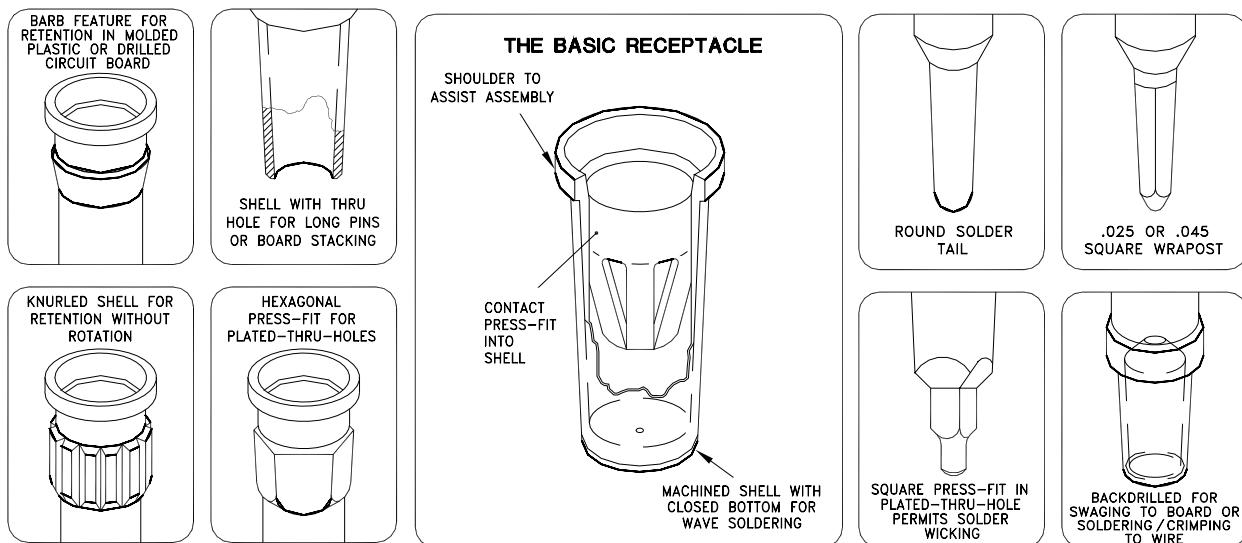
The basic conducting element used in printed circuit board (PCB) connections is the pin receptacle. This receptacle provides the electrical path from the component lead through the contact to the PCB via the terminal or housing. The machined shell or housing of pin receptacles is available in various styles depending on the application (See illustrations below). For solder mounting, a smooth barrel is utilized since it promotes capillary action of solder between the barrel and the plated-thru-hole. Here, the benefit of utilizing machined pins can be realized since the closed bottom design prevents flux contamination of the contact area. If the insertion pin is unusually long or the requirement calls for board stacking, open bottom receptacles are available. For press-fit usage, pin receptacles have been developed in various styles depending on the application. A barb feature is available for retention in molded plastic or drilled circuit boards. Knurled shells offer additional protection against rotation. For press-fit applications in plated-thru-holes, shells with flats on the side were developed.

The terminal end of pin receptacles have many variations; a round solder tail, press-fit tail, surface mount tail, crimp tail, solder-cup tail, swage tail or no tail. Special pin terminations have been developed over recent years to address both surface mount and solderless press-fit applications. For surface mounting, a "floating contact" design (M-M# 1434) was developed. This unique, stub tail design allows .008" vertical travel in the insulator as the contact reacts to the capillary action of the melting solder paste thus eliminating dry solder joints. (See page 26). Solderless press-fit tails (M-M# 4612, 4613, 4614 & 4615) are available in a truly compliant pin for use in plated-thru-hole applications (See page 20)

The inner contacts (clips) are made from precision stamped beryllium copper which is heat treated. They are designed in a multi-tine (or "multi-finger") style enabling them to accommodate round, square and rectangular component leads. Mill-Max offers 35 pre-tooled contact types in 3, 4 or 6 "fingers", that will accept diameters ranging from .012 inches to .102 inches, encompassing most design applications. A convenient contact selector chart is located on page 203 showing the different specifications of each contact.

Pin receptacles can be utilized as discrete connectors for the plugging and unplugging of components on pc boards. They can be utilized individually or in random arrays where the usage is small. Here they can be handled and loaded manually in preparation for soldering or, with different style of shell, for press-fitting. When it involves a SIP, DIP, PGA or multi-pin custom pattern, the growing trend with printed circuit board packaging is toward utilizing socket carriers. See page 32 for socket carrier information. The two-piece construction of pin and receptacle offers the benefit of utilizing selective precious metal plating. For example, in many applications, gold is usually plated on the smaller contact area allowing the larger shell to be plated in less expensive tin.

Mill-Max' specialization in high-speed turning technology allows custom shells to be machined in a fraction of the time required by processes using swaging or stamping dies and at considerably less cost. A custom interconnect can be easily realized by selecting one of the 35 types of pre-tooled contacts (clips) and having it press-fit into a custom machined shell. The quickest way to obtain a quotation on custom made products is to fill out the custom pin/receptacle worksheet in the back of the Mill-Max catalog and fax it to the factory. If you need assistance, one of Mill-Max's application engineers will be pleased to help you.





SPECIFICATIONS

Materials:

BRASS ALLOY 360 UNS C36000 ASTM-B16-00
PHOSPHOR BRONZE Alloy 544 UNS C54400 ASTM-B139-01
BERYLLIUM COPPER (contacts) UNS C17200 ASTM-B194-01

Platings:

GOLD per ASTM B 488, Type 2, Code C
SILVER per ASTM B 700, Grade B, Class 5
TIN per ASTM B 545, Type 1
TIN/LEAD (93/7) per ASTM B 545
ELECTRO-SOLDER (60/40) per ASTM B 579, Bright
NICKEL per SAE-AMS-QQ-N-290
ELECTROLESS NICKEL per MIL-C-26074
COPPER per SAE-AMS-2418

Where applicable, Mill-Max products and procedures are designed to meet the following general specifications

MIL-STD 105	-Sampling procedures
MIL-STD 109	-Quality assurance terms and definitions
MIL-STD 202E	-Test methods for electronic and electrical component parts
MIL-STD 1130B	-Connections, electrical, solderless, wrapped
MIL-STD 1344A	-Test methods for electrical connectors
MIL-STD 45662	-Calibration system requirements
MIL-C-39024	-General specification for connectors, electrical, jack, tip
MIL-C-39029	-General specification for contacts, electrical connector
MIL-F-14072	-Finished for ground system equipment
MIL-I-45208	-Inspection system requirements
MIL-I-45607	-Inspection equipment, acquisition, maintenance and disposition of
MIL-S-83505	-General specification for sockets (lead, electronic components)
MIL-S-83734	-General specification for DIP sockets
MIL-T-55155	-General specification for solder terminals
ASTM-E8-01	-Standard methods of tension testing of metallic materials
ASTM-E384-99	-Standard test methods for micro-hardness of materials
ASTM-B487-85	-Measuring metal coating thickness by examination of a cross-section
ASTM-A754-96	-Standard test method for coating thickness by X-ray fluorescence

In the interest of improved design and performance, Mill-Max reserves the right to make changes in its specifications without prior notice.

CUSTOM CAPABILITIES

Mill-Max has become the leading U.S. manufacturer of machined interconnect components through the evolution of high-speed turning technology. From our highly automated factory in Oyster Bay, on the north shore of Long Island, we ship in excess of 4 billion components annually. The facility houses over 500 production machines and a state-of-the-art plating department. Our "basket" plating process was developed specifically to achieve a gold or tin finish that is more uniform and controlled than conventional "barrel plating".

High-speed-turning is extremely competitive in mass production since it permits pins and receptacles to be manufactured in a fraction of the time, and at a fraction of the cost of processes involving swaging or stamping dies. Mill-Max also takes advantage of high-speed-turning to quickly deliver custom products and prototype quantities economically.

Mill-Max complements high speed-turning with a comprehensive selection of pre-tooled "multi-finger" spring contacts (see selector chart on page 203). Receptacles are made by press-fitting one of these contacts into a precision machined shell. Your concept for a custom connector can be easily realized by selecting a standard Mill-Max contact and having it fitted into a custom machined shell.

The very art of high-speed turning limits Mill-Max to the use of "free-machining" alloys with diameters up to 3/16". Here is a list of stock materials and diameters available for custom manufacture:

BRASS Alloy 360, 1/2 hard:	.072/.078/.093/.125/.156/.187 diameters
BRASS Alloy 360, 1/4 hard:	.072/.078 diameters
BRASS TUBING:	.072 O.D.x.020 I.D./ .072 O.D.x.025 I.D.
PHOSPHOR BRONZE Alloy 544	.062/.072 diameters

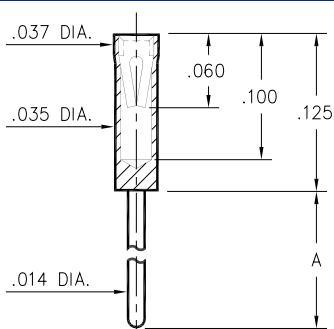
Mill-Max will gladly quote custom made products: please complete the specification sheet on page 216 or send us your own drawings; we assure you of a fast response.



PIN RECEPTACLES
for .012" - .017" diameter pins



0464

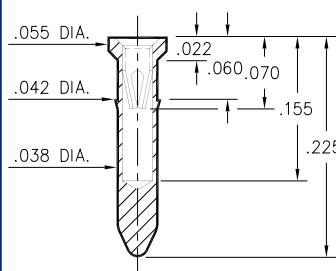


0464-X-15-XX-10-XX-04-0

Solder mount in .016 min.
mounting hole

Basic Part Number	Length A
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0464-1	.250

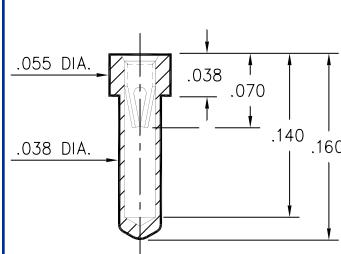
9225



9225-0-15-XX-10-XX-10-0

Press-fit in .039 mounting hole

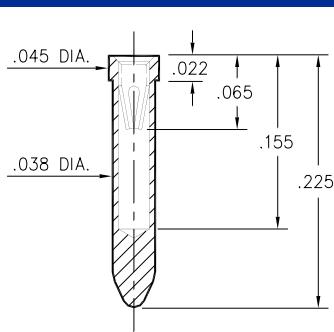
0529



0529-0-15-XX-10-XX-10-0

.040 min. mounting hole

8947



8947-0-15-XX-10-XX-10-0

Solder mount in .040 min.
mounting hole

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

**DIMENSION IN INCHES
TOLERANCES ON:**
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

ORDER CODE: XXXX - X - 15 - XX - 10 - XX - XX - 0

BASIC PART # _____

SPECIFY SHELL FINISH: _____

01 200 μ TIN/LEAD OVER NICKEL

15 10 μ GOLD OVER NICKEL

SPECIFY CONTACT FINISH: _____

02 200 μ TIN/LEAD OVER NICKEL

14 10 μ GOLD OVER NICKEL

27 30 μ GOLD OVER NICKEL

CONTACT

#10 CONTACT (DATA ON PAGE 205)



PIN RECEPTACLES
for .015" - .022" diameter pins
(see specific contact range on page 206)

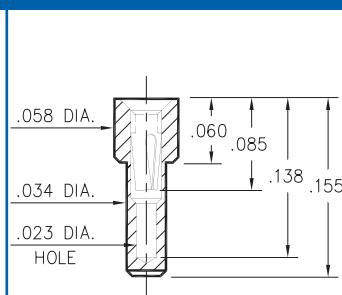
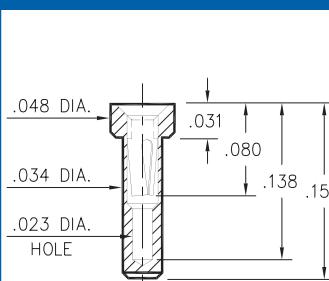
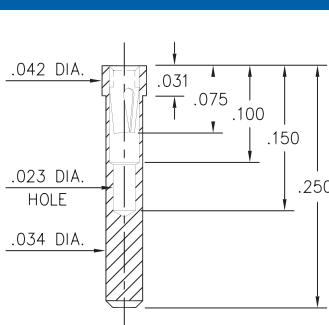
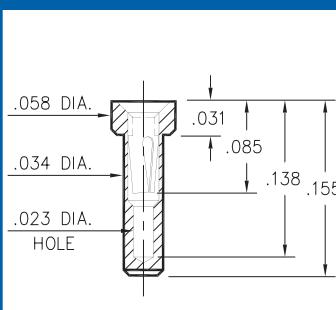


0548

8975

3016

9548



0548-0-15-XX-21-XX-10-0

Solder mount in .036 min.
mounting hole

8975-0-15-XX-21-XX-10-0

Solder mount in .036 min.
mounting hole

3016-0-15-XX-21-XX-10-0

Solder mount in .036 min.
mounting hole

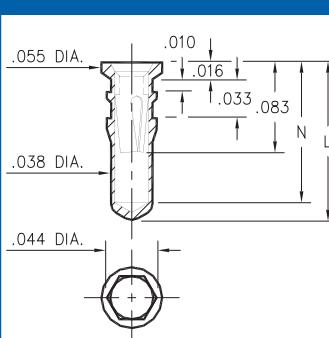
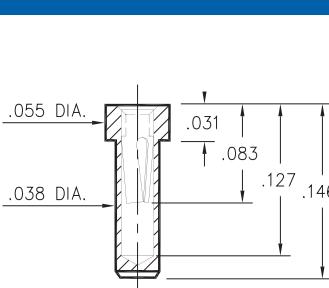
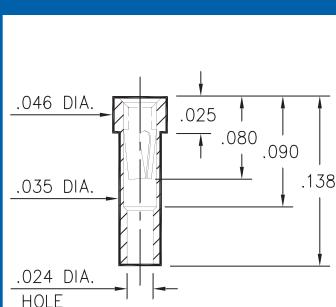
9548-0-15-XX-21-XX-10-0

Solder mount in .036 min.
mounting hole

8637

1407

0553/8553



Basic Part Number	Length L	Depth N
0553-1	.140	.124
0553-2	.170	.154
0553-3	.282	.266
8553-0	.245	.229

8637-0-15-XX-21-XX-10-0

Solder mount in .037 min.
mounting hole

1407-0-15-XX-11-XX-10-0

Solder mount in .040 min.
mounting hole

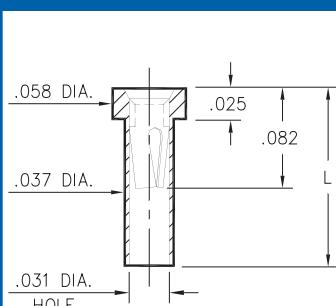
X553-X-15-XX-X1-XX-10-0

Hex press-fit in .041 plated
thru hole

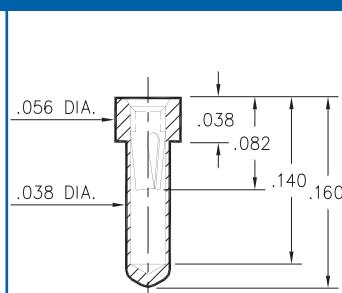
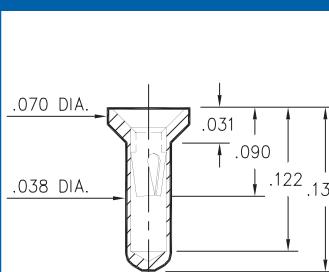
0566

0442

0554



Basic Part Number	Length L
0566-1	.083
0566-2	.138



0566-X-15-XX-21-XX-10-0

Solder mount in .039 min.
mounting hole

0442-0-15-XX-11-XX-10-0

Solder mount in .040 min.
mounting hole

0554-0-15-XX-21-XX-10-0

Solder mount in .040 min.
mounting hole

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

DIMENSION IN INCHES

TOLERANCES ON:
 LENGTHS: $\pm .005$
 DIAMETERS: $\pm .002$
 ANGLES: $\pm 2^\circ$

ORDER CODE: XXXX - X - 15 - XX - XX - XX - 10 - 0

BASIC PART # _____

SPECIFY SHELL FINISH: _____

01 200m TIN/LEAD OVER NICKEL

15 10m GOLD OVER NICKEL

SPECIFY CONTACT FINISH: _____

02 200m TIN/LEAD OVER NICKEL

14 10m GOLD OVER NICKEL

27 30m GOLD OVER NICKEL

SELECT CONTACT

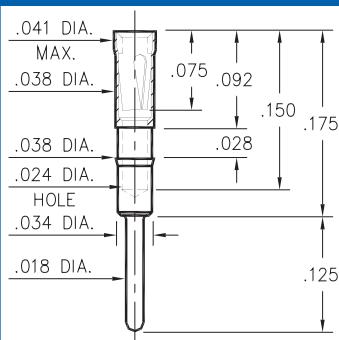
#11 OR #21 CONTACT (DATA ON PAGE 206)



PIN RECEPTACLES
for .015" - .022" diameter pins
(see specific contact range on page 206)



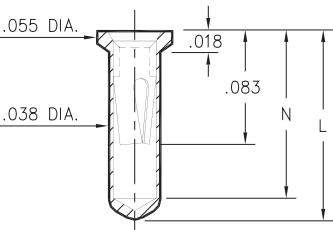
0467



0467-0-15-XX-21-XX-04-0

Press-fit in .037 mounting hole

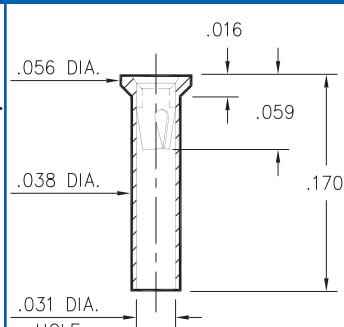
0552



0552-X-15-XX-X1-XX-10-0

Solder mount in .040 min. mounting hole

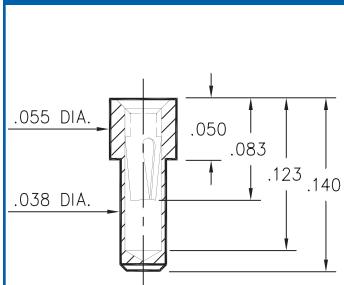
5522



5522-0-15-XX-09-XX-10-0

Solder mount in .040 min. mounting hole

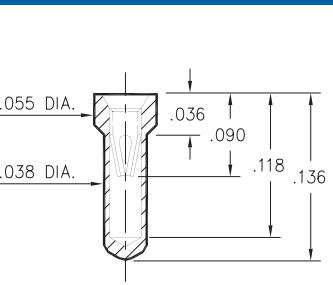
0569



0569-0-15-XX-X1-XX-10-0

Solder mount in .040 min. mounting hole

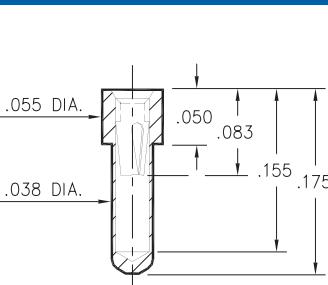
6023



6023-0-15-XX-21-XX-10-0

Solder mount in .040 min. mounting hole

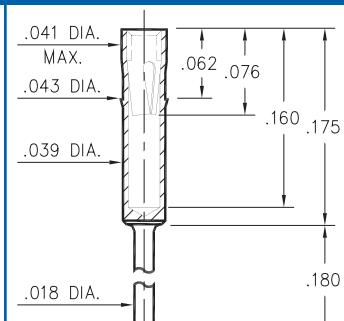
6214



6214-0-15-XX-21-XX-10-0

Solder mount in .040 min. mounting hole

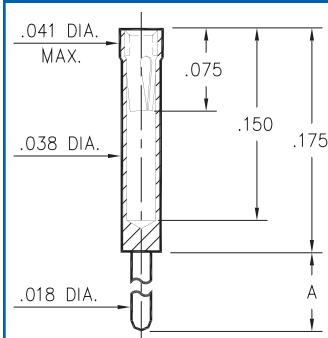
2086



2086-0-15-XX-21-XX-04-0

Press-fit in .040 mounting hole

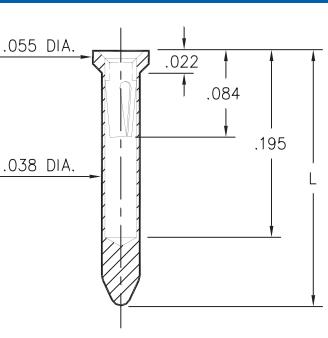
0461



0461-X-15-XX-X1-XX-04-0

Solder mount in .020 min. mounting hole

8579



8579-0-15-XX-X1-XX-10-0

Solder mount in .040 min. mounting hole

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

ORDER CODE: XXXX - X - 15 - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

01 200 μ m TIN/LEAD OVER NICKEL

15 10 μ m GOLD OVER NICKEL

SPECIFY CONTACT FINISH:

02 200 μ m TIN/LEAD OVER NICKEL

14 10 μ m GOLD OVER NICKEL

27 30 μ m GOLD OVER NICKEL

SELECT CONTACT

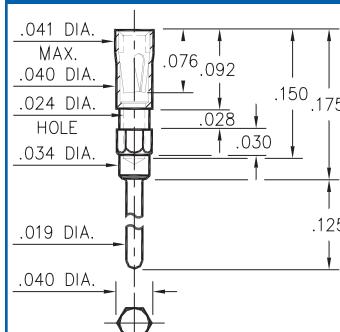
#09, #11 or #21 CONTACT (DATA ON PAGE 206)



PIN RECEPTACLES
for .015" - .022" diameter pins
(see specific contact range on page 206)

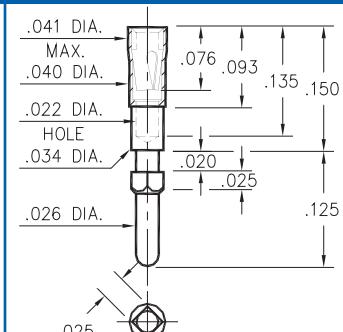


8467



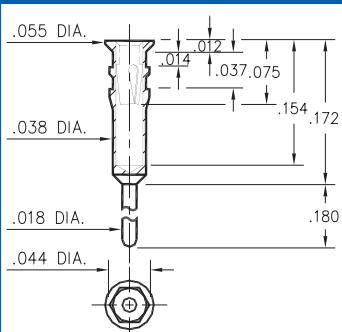
8467-0-15-XX-21-XX-04-0
 Hex press-fit in .036 plated thru hole

6192



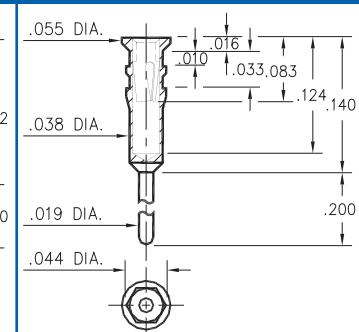
6192-0-15-XX-21-XX-04-0
 Square press-fit in .032 plated thru hole

9553



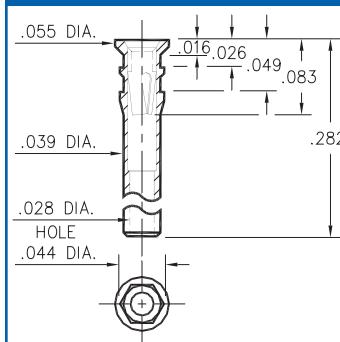
9553-0-15-XX-X1-XX-04-0
 Hex press-fit in .041 plated thru hole

5531



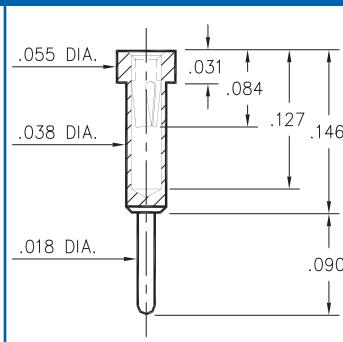
5531-0-15-XX-21-XX-10-0
 Hex press-fit in .041 plated thru hole

7553



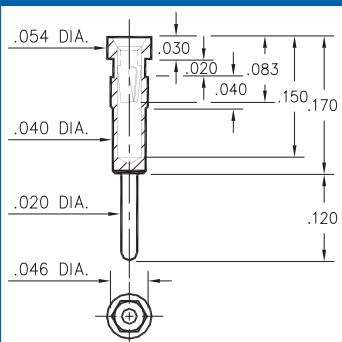
7553-0-15-XX-11-XX-10-0
 Hex press-fit in .041 plated thru hole

9407



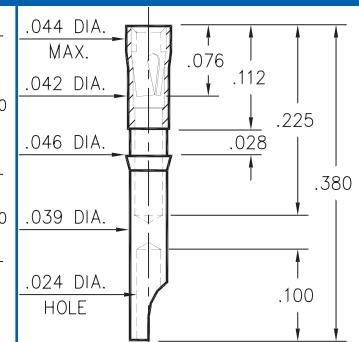
9407-0-15-XX-11-XX-10-0
 Solder mount in .040 min. mounting hole

9462



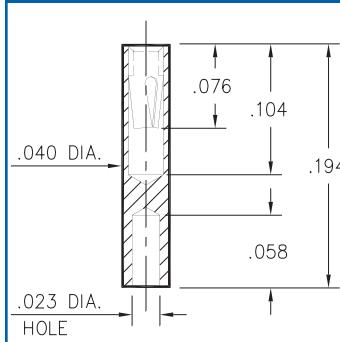
9462-0-15-XX-21-XX-04-0
 Hex press-fit in .043 plated thru hole

1147



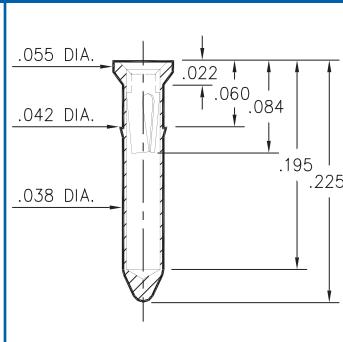
1147-0-18-XX-21-XX-10-0
 Press-fit in .043 min. mounting hole

3061



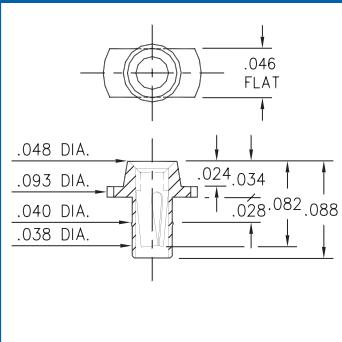
3061-0-19-XX-21-XX-10-0
 Wire Termination

0579



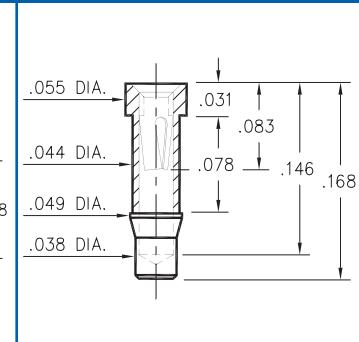
0579-0-15-XX-X1-XX-10-0
 Press-fit in .040 mounting hole

8874



8874-0-15-XX-11-XX-10-0
 Bottom entry Surface mount

0613



0613-0-15-XX-21-XX-10-0
 Press-fit in .047 mounting hole

SPECIFICATIONS

SHELL MATERIAL:
 Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
 Beryllium Copper Alloy 172, HT

DIMENSION IN INCHES
TOLERANCES ON:
 LENGTHS: $\pm .005$
 DIAMETERS: $\pm .002$
 ANGLES: $\pm 2^\circ$

ORDER CODE: XXXX - X - 1X - XX - XX - XX - XX - 0

BASIC PART # _____

SPECIFY SHELL FINISH: _____

01 200m " TIN/LEAD OVER NICKEL
 15 10m " GOLD OVER NICKEL

SPECIFY CONTACT FINISH:
 02 200m " TIN/LEAD OVER NICKEL
 14 10m " GOLD OVER NICKEL
 27 30m " GOLD OVER NICKEL

SELECT CONTACT

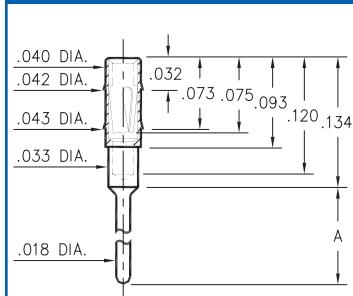
#11 or #21 CONTACT (DATA ON PAGE 206)



PIN RECEPTACLES
for .015" - .022" diameter pins
(see specific contact range on page 206)



0489

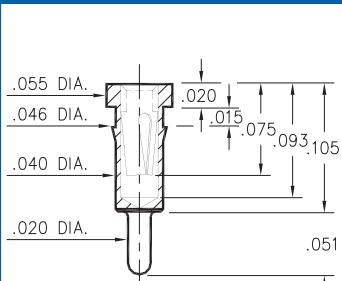


Basic Part Number	Length A
0489-0	.102
0489-1	.199
0489-2	.299

0489-X-15-XX-11-XX-04-0

Press-fit in .041 mounting hole.

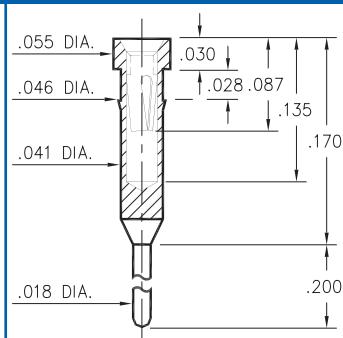
0463



0463-0-15-XX-21-XX-04-0

Press-fit in .043 mounting hole.
shell is Phos. Br. Alloy 544 (B2)

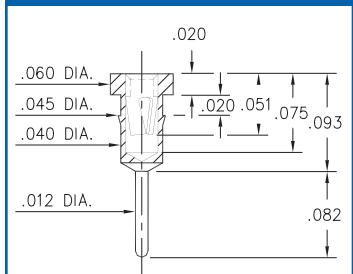
0466



0466-0-15-XX-21-XX-04-0

Press-fit in .043 mounting hole.
shell is Phos. Br. Alloy 544 (B2)

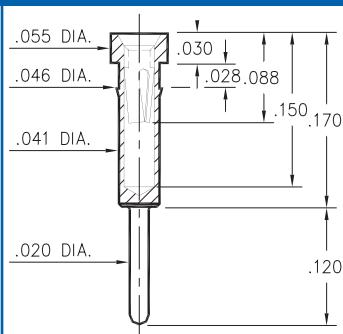
7491



7491-0-15-XX-X1-XX-04-0

Press-fit in .042 mounting hole

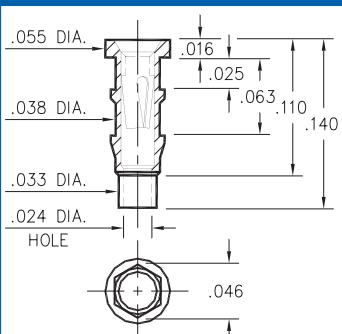
0462



0462-0-15-XX-X1-XX-04-0

Press-fit in .043 mounting hole

0560



0560-0-15-XX-11-XX-10-0

Hex press-fit in .043 plated thru hole

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

ORDER CODE: XXXX - X - 15 - XX - XX - XX - XX - 0

BASIC PART # _____

SPECIFY SHELL FINISH: _____

01 200m " TIN/LEAD OVER NICKEL

15 10m " GOLD OVER NICKEL

SPECIFY CONTACT FINISH:
02 200m " TIN/LEAD OVER NICKEL
14 10m " GOLD OVER NICKEL
27 30m " GOLD OVER NICKEL

SELECT CONTACT

#11 or #21 CONTACT (DATA ON PAGE 206)



PIN RECEPTACLES
for .015" - .022" diameter pins



0512	2218	0703	0574
<p>.072 DIA. .060 DIA. .053 DIA. .021 DIA. HOLE .029 DIA.</p> <p>.010 .020 .062 .083 .149 .082</p>	<p>.072 DIA. .060 DIA. .053 DIA. .030 DIA. .023 DIA. HOLE</p> <p>.020 .028,.073 .094 .105 .120</p>	<p>.072 DIA. .060 DIA. .053 DIA. .022 DIA. HOLE .030 DIA.</p> <p>.020 .028,.071 .155 .095</p>	<p>.072 DIA. .060 DIA. .053 DIA. .021 DIA. HOLE .029 DIA.</p> <p>.023 .020,.070 .095 .160 .155</p>
0512-0-15-XX-12-XX-04-0 Press-fit in .057 mounting hole	2218-0-15-XX-22-XX-10-0 Press-fit in .057 mounting hole	0703-0-15-XX-12-XX-04-0 Press-fit in .057 mounting hole	0574-0-15-XX-12-XX-04-0 Press-fit in .057 mounting hole
0468	0550	0671	0707
<p>.072 DIA. .060 DIA. .053 DIA. .020 DIA.</p> <p>.020 .028,.073 .110 .132 .125</p>	<p>.072 DIA. .050 DIA.</p> <p>.035 .064 .120 .140</p>	<p>.094 DIA. .060 DIA.</p> <p>.031 .063 .130 .155</p>	<p>.068 DIA. .049 DIA. .043 DIA. HOLE</p> <p>.020 .062 .200</p>
0468-0-15-XX-12-XX-04-0 Press-fit in .057 mounting hole	0550-0-15-XX-22-XX-10-0 Solder mount in .052 min. mounting hole	0671-0-15-XX-12-XX-10-0 Solder mount in .063 min. mounting hole	0707-0-15-XX-12-XX-10-0 Solder mount in .051 min. mounting hole
5739	8894		
<p>.108 DIA. .084 DIA. .043 DIA. HOLE</p> <p>.030 .110 .157 .060 FLAT</p>	<p>.068 DIA. .052 DIA. .043 DIA. HOLE</p> <p>.010 .067 .070 .100 .061 DIA.</p>		
5739-0-18-XX-12-XX-10-0 Surface mount	8894-0-15-XX-12-XX-10-0 Hex press-fit in .059 plated thru hole		
SPECIFICATIONS	ORDER CODE: <u>XXXX - X - 1X - XX - XX - XX - XX - 0</u>		
SHELL MATERIAL: Brass Alloy 360, 1/2 Hard CONTACT MATERIAL: Beryllium Copper Alloy 172, HT DIMENSION IN INCHES TOLERANCES ON: LENGTHS: $\pm .005$ DIAMETERS: $\pm .002$ ANGLES: $\pm 2^\circ$	BASIC PART # <u> </u> SPECIFY SHELL FINISH: <u> </u> 01 200 μ " TIN/LEAD OVER NICKEL 15 10 μ " GOLD OVER NICKEL	SPECIFY CONTACT FINISH: 02 200 μ " TIN/LEAD OVER NICKEL 14 10 μ " GOLD OVER NICKEL 27 30 μ " GOLD OVER NICKEL	SELECT CONTACT #12 or #22 CONTACT (DATA ON PAGE 207)



PIN RECEPTACLES
for .015" - .025" diameter pins

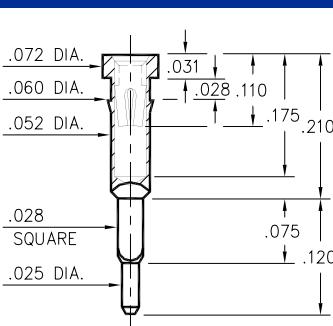
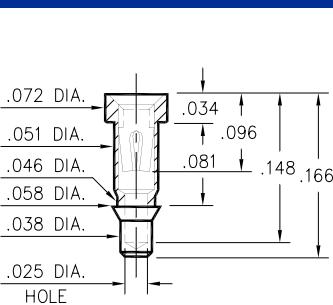
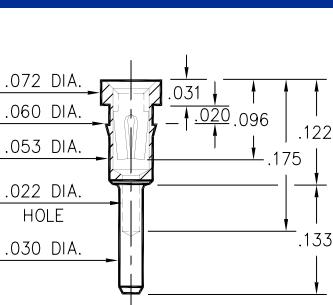
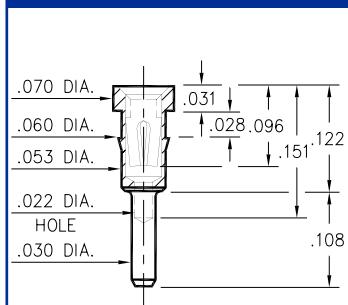


0501

8427

1434

9970



0501-0-15-XX-30-XX-04-0

Press-fit in .057 mounting hole

8427-0-15-XX-30-XX-04-0

Press-fit in .057 mounting hole

1434-0-15-XX-30-XX-10-0

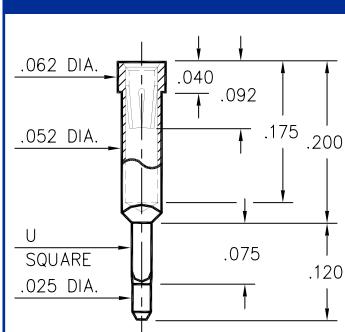
Press-fit in .055 mounting hole

9970-0-15-XX-30-XX-04-0

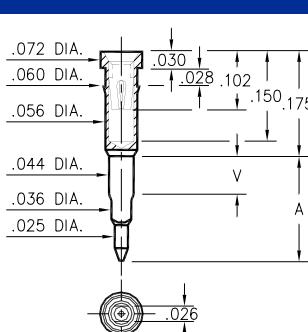
Square press-fit for .032 ±.002 plated thru hole

5970

0477/0478



Basic Part Number	U Square	Mounting Hole
5970-1	.028	.032
5970-2	.034	.039



Basic Part Number	Board Thickness	Length V	Length A
0477-0	.062	.075	.175
0478-0	.125	.140	.250

5970-X-15-XX-32-XX-04-0

Square press-fit for .032 or .039 ±.002 plated thru hole

047X-0-18-XX-30-XX-04-0

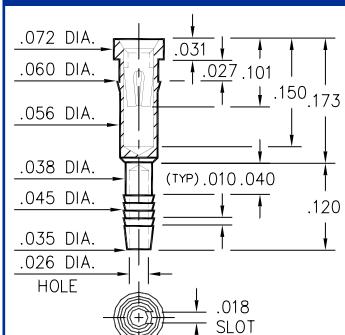
Solderless press-fit in .038 +.003 / -.002 plated thru hole (use 1.1mm drill prior to plating)

4612

4613

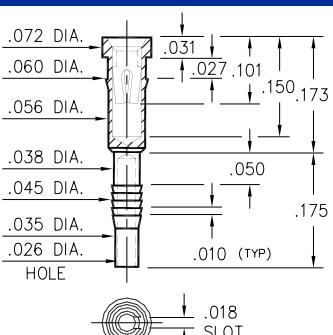
0680

0149



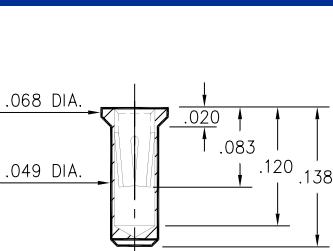
4612-0-31-XX-30-XX-04-0

Compliant press-fit in .040 ±.003 plated hole. For .060 → .100 thick board



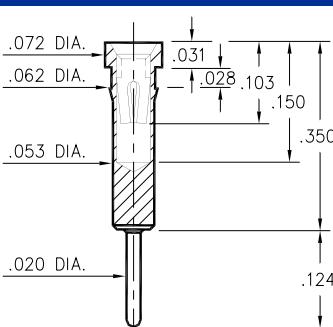
4613-0-31-XX-30-XX-04-0

Compliant press-fit in .040 ±.003 plated hole. For .090 → .130 thick board



0680-0-15-XX-32-XX-10-0

Solder mount in .051 min. mounting hole



0149-0-15-XX-30-XX-04-0

Press-fit in .059 mounting hole

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

**DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°**

ORDER CODE: XXXX - X - XX - XX - 3X - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

**01 200μ" TIN/LEAD OVER NICKEL
15 10μ" GOLD OVER NICKEL**

SPECIFY CONTACT FINISH:

**02 200μ" TIN/LEAD OVER NICKEL
14 10μ" GOLD OVER NICKEL
27 30μ" GOLD OVER NICKEL**

SELECT CONTACT

#30 or #32 CONTACT (DATA ON PAGE 208)



PIN RECEPTACLES
for .015" - .025" diameter pins

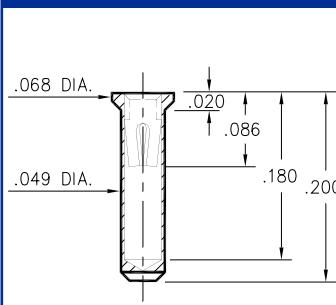


0660

0677

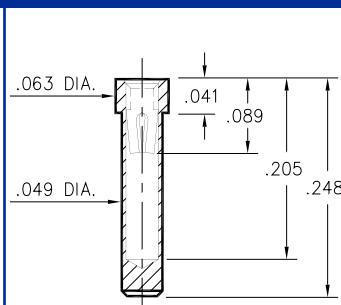
0555

0558



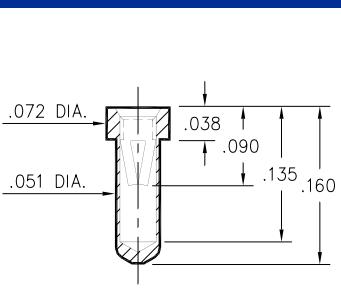
0660-0-15-XX-30-XX-10-0

Solder mount in .051 min.
mounting hole



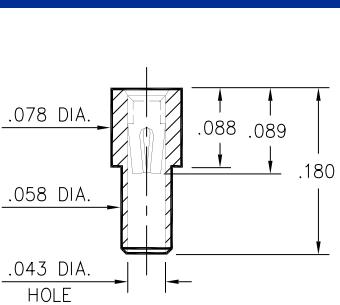
0677-0-15-XX-30-XX-10-0

Solder mount in .051 min.
mounting hole



0555-0-15-XX-20-XX-10-0

Solder mount in .053 min.
mounting hole

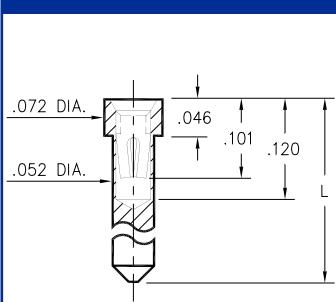


0558-0-15-XX-30-XX-10-0

Solder mount in .061 min.
mounting hole

0675/0679

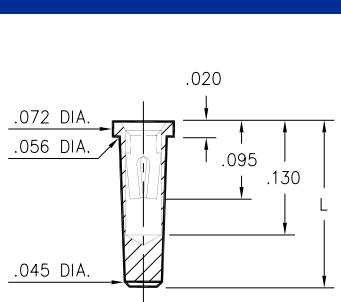
1065/1066/7065



Basic Part Number	Length L
0675-0	.145
0679-0	.203

067X-0-15-XX-30-XX-10-0

Solder mount in .054 min.
mounting hole



Basic Part Number	Length L
1065-0	.190
1066-0	.160
7065-0	.181

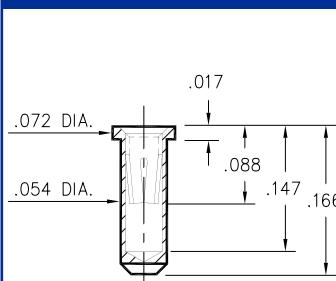
X06X-0-15-XX-30-XX-10-0

Solder mount in .055 min.
mounting hole

0682

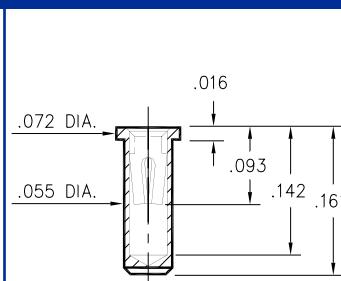
0667

0665



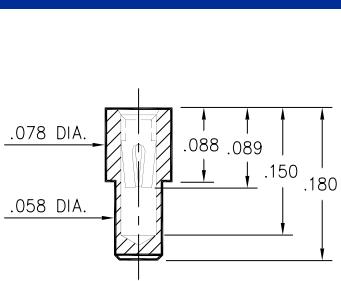
0682-0-15-XX-32-XX-10-0

Solder mount in .056 min.
mounting hole



0667-0-15-XX-30-XX-10-0

Solder mount in .057 min.
mounting hole



0665-0-15-XX-30-XX-10-0

Solder mount in .061 min.
mounting hole

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

**DIMENSION IN INCHES
TOLERANCES ON:**
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm .002^\circ$

ORDER CODE: XXXX - X - 15 - XX - XX - XX - 10 - 0

BASIC PART #

SPECIFY SHELL FINISH:

01 200 μ " TIN/LEAD OVER NICKEL

15 10 μ " GOLD OVER NICKEL

SPECIFY CONTACT FINISH:

02 200 μ " TIN/LEAD OVER NICKEL

14 10 μ " GOLD OVER NICKEL

27 30 μ " GOLD OVER NICKEL

SELECT CONTACT

#30 OR #32 CONTACT (DATA ON PAGE 208)



PIN RECEPTACLES
for .015" - .025" diameter pins

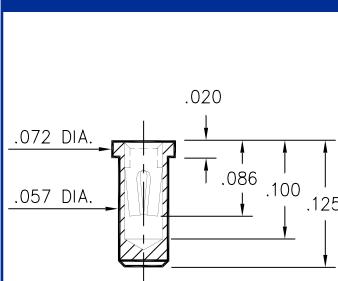


0669

0670

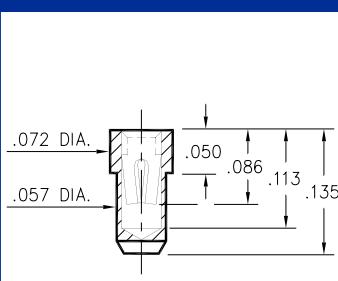
0673

0666



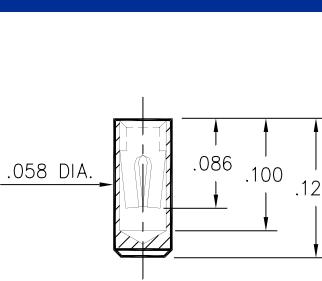
0669-0-15-XX-30-XX-10-0

Solder mount in .060 min.
mounting hole



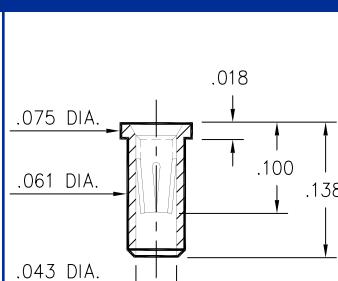
0670-0-15-XX-30-XX-10-0

Solder mount in .060 min.
mounting hole



0673-0-15-XX-30-XX-10-0

Surface Mount



0666-0-15-XX-32-XX-10-0

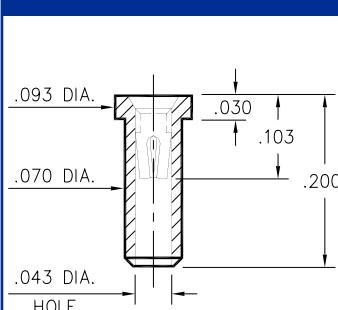
Solder mount in .064 min.
mounting hole

0341

0252

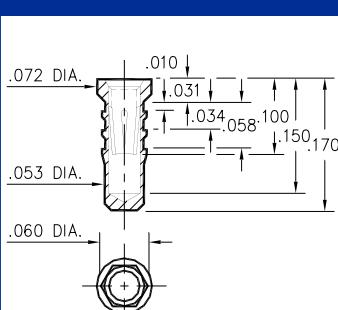
0678

0676



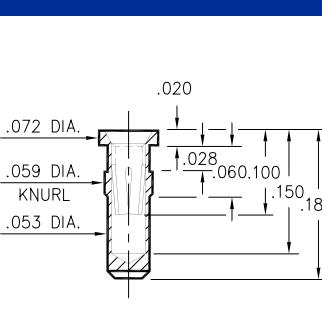
0341-0-15-XX-30-XX-10-0

Press-fit in .073 mounting hole



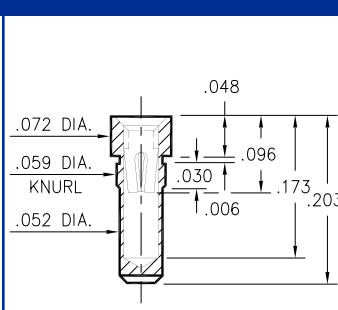
0252-0-15-XX-32-XX-10-0

Hex press-fit in .057 plated
thru hole



0678-0-15-XX-32-XX-10-0

Press-fit in .057 mounting hole



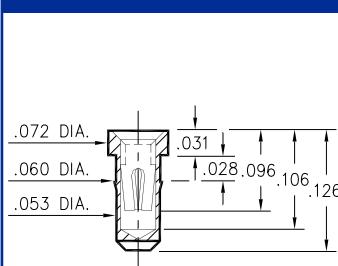
0676-0-15-XX-30-XX-10-0

Press-fit in .057 mounting hole

0697

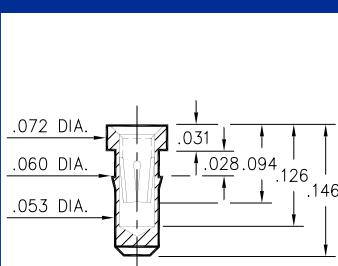
0668

0253/1033



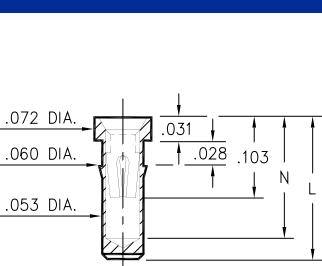
0697-0-15-XX-30-XX-10-0

Press-fit in .057 mounting hole



0668-0-15-XX-30-XX-10-0

Press-fit in .057 mounting hole



Basic Part Number	Length L	Depth N
0253-0	.173	.148
1033-0	.203	.162

XXX3-0-15-XX-30-XX-10-0

Press-fit in .057 mounting hole

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

ORDER CODE: XXXX - 0 - 15 - XX - 3X - XX - 10 - 0

BASIC PART # _____

SPECIFY SHELL FINISH: _____

01 200 μ " TIN/LEAD OVER NICKEL
15 10 μ " GOLD OVER NICKEL

SPECIFY CONTACT FINISH:

02 200 μ " TIN/LEAD OVER NICKEL
14 10 μ " GOLD OVER NICKEL
27 30 μ " GOLD OVER NICKEL

SELECT CONTACT

#30 OR #32 CONTACT (DATA ON PAGE 208)



PIN RECEPTACLES
for .015" - .025" diameter pins

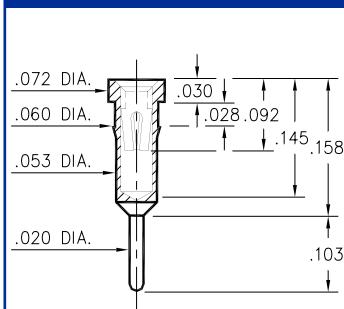


4011

1801

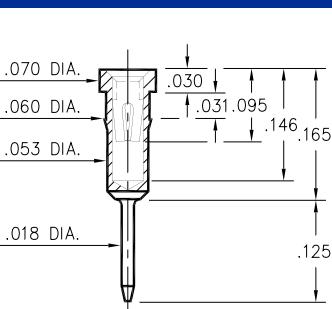
1001

0156



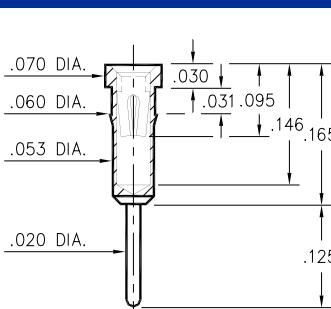
4011-0-15-XX-30-XX-04-0

Press-fit in .057 mounting hole



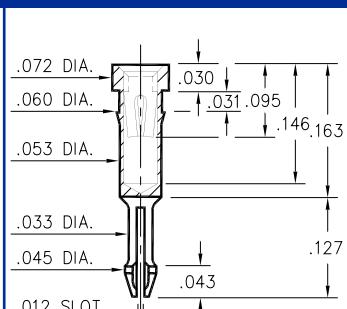
1801-0-15-XX-30-XX-04-0

Press-fit in .057 mounting hole
Shell is Ph. Br. Alloy 544 (B2)



1001-0-15-XX-3X-XX-04-0

Press-fit in .057 mounting hole



0156-0-18-XX-30-XX-04-0

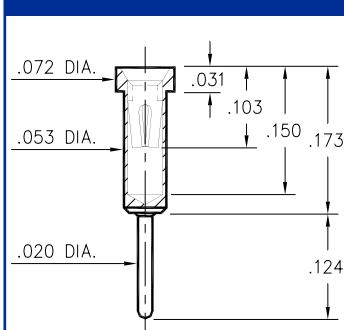
Self-retention socket pin .038-.043
hole prior to soldering

0255

1109

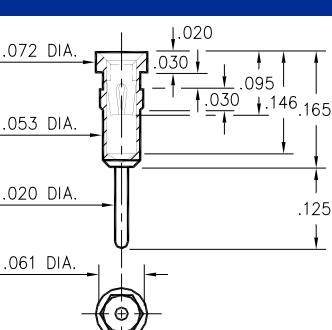
3013

0134



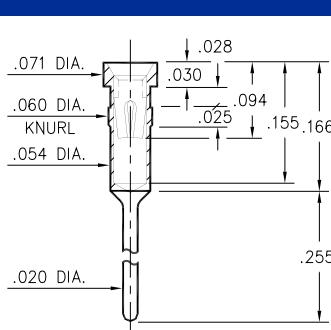
0255-0-15-XX-30-XX-04-0

Solder mount in .022 min.
mounting hole



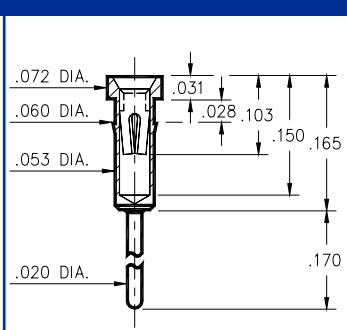
1109-0-15-XX-30-XX-04-0

Hex press-fit in .057
plated thru hole



3013-0-15-XX-32-XX-04-0

Press-fit in .057 mounting hole

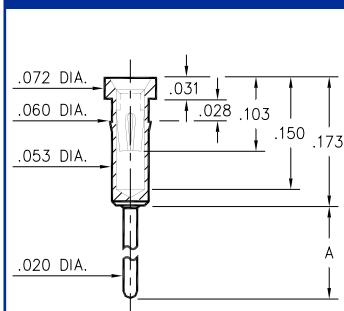


0134-0-15-XX-3X-XX-04-0

Press-fit in .057 mounting hole

0132/0135

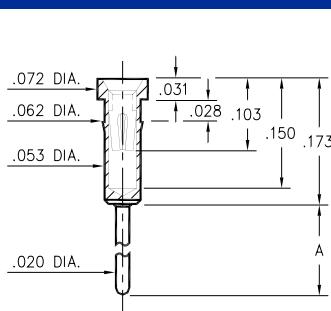
0133/0147



013X-0-15-XX-30-XX-04-0

Press-fit in .057 mounting hole

Basic Part Number	Length A
0132-0	.273
0135-0	.183



Basic Part Number	Length A
0133-0	.382
0147-0	.563

01XX-0-15-XX-30-XX-04-0

01XX-0-15-XX-30-XX-04-0

Press-fit in .059 mounting hole

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

**DIMENSION IN INCHES
TOLERANCES ON:**
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

ORDER CODE: XXXX - X - 1X - XX - 3X - XX - 04 - 0

BASIC PART #

SPECIFY SHELL FINISH:

01 200 μ " TIN/LEAD OVER NICKEL
15 10 μ " GOLD OVER NICKEL

SPECIFY CONTACT FINISH:

02 200 μ " TIN/LEAD OVER NICKEL
14 10 μ " GOLD OVER NICKEL
27 30 μ " GOLD OVER NICKEL

SELECT CONTACT

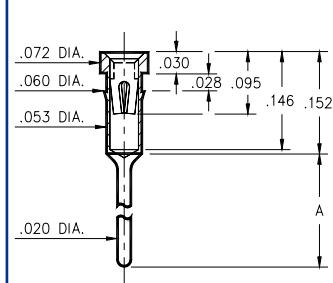
#30 OR #32 CONTACT (DATA ON PAGE 208)



PIN RECEPTACLES
for .015" - .025" diameter pins



1005/1013/8898



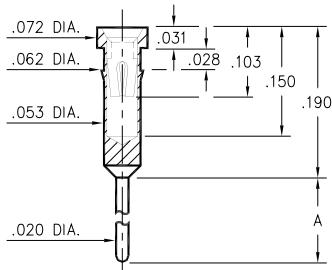
Basic Part Number	Length A
1005-0	.138
1013-0	.165
8898-0	.214

NOTE: 8898 is not annealed & not suitable for auto-clinching

XXXX-0-15-XX-3X-XX-04-0

Press-fit in .057 mounting hole
1/4 hard brass shell for auto-clinching

0145/0146

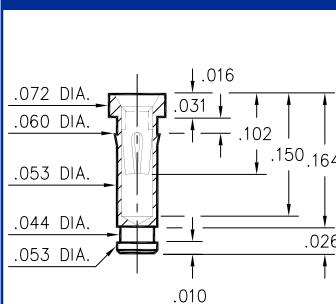


Basic Part Number	Length A
0145-0	.300
0146-0	.410

014X-0-15-XX-30-XX-04-0

Press-fit in .059 mounting hole

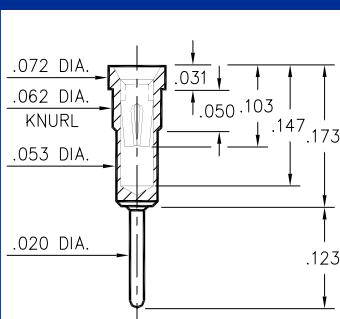
4378



4378-0-15-XX-30-XX-10-0

Press-fit in .057 mounting hole

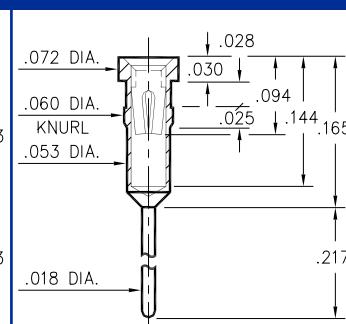
0556



0556-0-15-XX-30-XX-04-0

Press-fit in .059 mounting hole

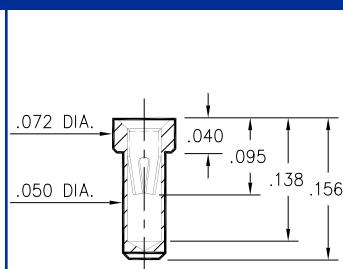
1103



1103-0-15-XX-30-XX-04-0

Press-fit in .057 mounting hole

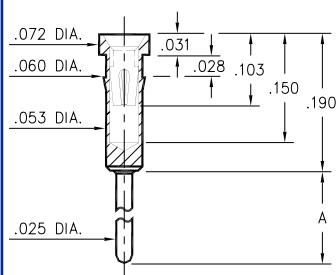
9234



9234-0-15-XX-30-XX-10-0

Solder mount in .052 min. mounting hole

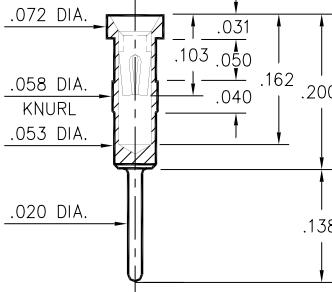
0136/37/38/39/41/48/52



01XX-0-15-XX-30-XX-04-0

Press-fit in .057 mounting hole

0447



0447-0-15-XX-30-XX-04-0

Press-fit in .056 mounting hole

5660

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

ORDER CODE: XXXX - X - 15 - XX - 3X - XX - XX - 0

BASIC PART # _____

SPECIFY SHELL FINISH: _____

01 200 μ " TIN/LEAD OVER NICKEL
15 10 μ " GOLD OVER NICKEL

SPECIFY CONTACT FINISH: _____

02 200 μ " TIN/LEAD OVER NICKEL
14 10 μ " GOLD OVER NICKEL
27 30 μ " GOLD OVER NICKEL

SELECT CONTACT

#30 OR #32 CONTACT (DATA ON PAGE 208)



PIN RECEPTACLES
for .015" - .025" diameter pins

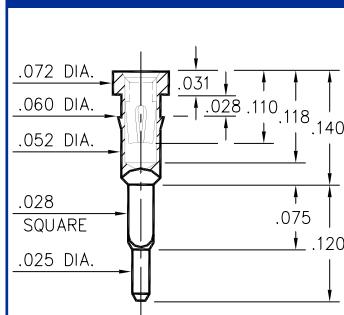


7132

8445

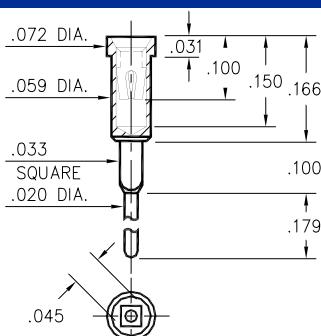
1038

1261



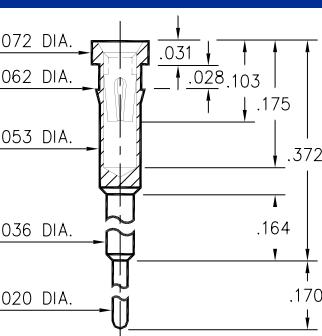
7132-0-15-XX-30-XX-04-0

Square press-fit for .032 ±.002 plated thru hole



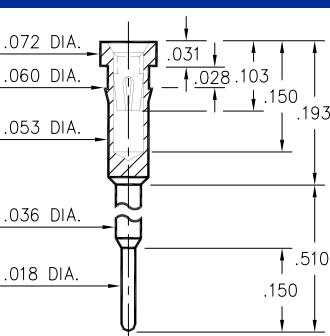
8445-0-15-XX-30-XX-04-0

Square press-fit for .039 ±.002 plated thru hole



1038-0-15-XX-30-XX-04-0

Press-fit in .059 mounting hole

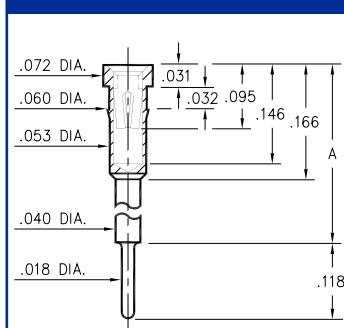


1261-0-15-XX-30-XX-04-0

Press-fit in .057 mounting hole

0153

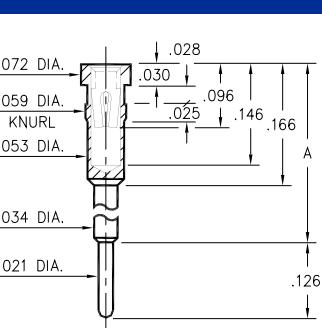
1602/1610



Basic Part Number	Height A
0153-1	.236
0153-2	.315
0153-3	.402
0153-4	.472
0153-5	.594
0153-6	.699

0153-X-15-XX-30-XX-04-0

Press-fit in .057 mounting hole

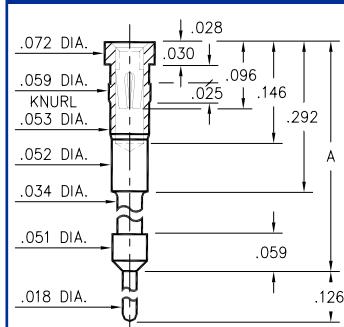


Basic Part Number	Height A
1602-0	.441
1610-0	.642

16XX-0-15-XX-30-XX-04-0

Press-fit in .057 mounting hole

0903/0904



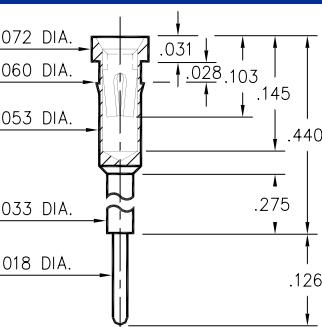
090X-0-15-XX-30-XX-04-0

Press-fit in .057 mounting hole

Basic Part Number	Height A
0903-0	.841
0904-0	1.141

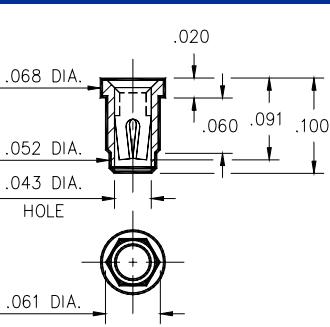
0144

8252



0144-0-15-XX-30-XX-04-0

Press-fit in .057 mounting hole



8252-0-15-XX-30-XX-10-0

Press-fit in .057 plated thru hole

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

**DIMENSION IN INCHES
TOLERANCES ON:**
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - 15 - XX - 30 - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

01 200µ" TIN/LEAD OVER NICKEL
15 10µ" GOLD OVER NICKEL

SPECIFY CONTACT FINISH:

02 200µ" TIN/LEAD OVER NICKEL
14 10µ" GOLD OVER NICKEL
27 30µ" GOLD OVER NICKEL

SELECT CONTACT

#30 CONTACT (DATA ON PAGE 208)



PIN RECEPTACLES
for .015" - .025" diameter pins

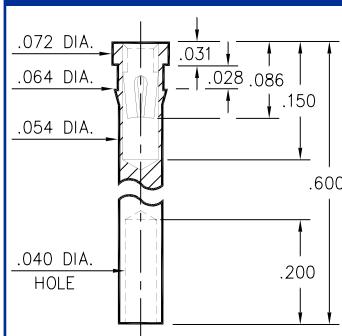


1707

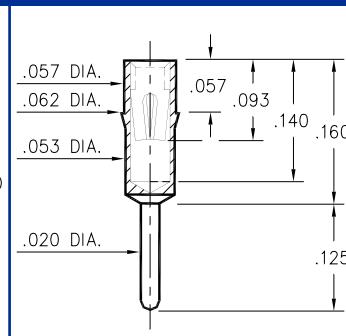
0240

0307

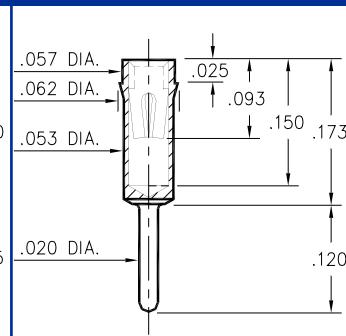
1753



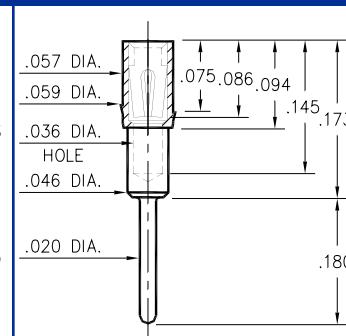
1707-0-19-XX-30-XX-10-0
Press-fit in .061 mounting hole



0240-0-15-XX-30-XX-04-0
Press-fit in .059 mounting hole



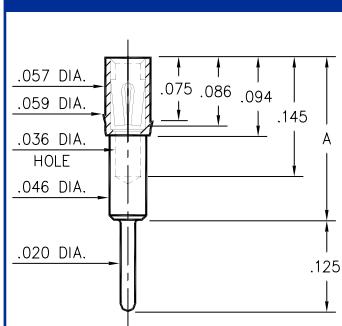
0307-0-15-XX-30-XX-04-0
Press-fit in .059 mounting hole



1753-0-15-XX-30-XX-04-0
Press-fit in .057 mounting hole

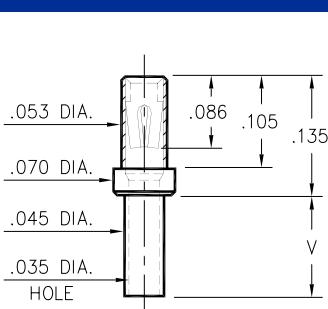
1705/1706/1762

0672



17XX-0-15-XX-35-XX-04-0
Press-fit in .057 mounting hole

Basic Part Number	Height A
1705-0	.165
1706-0	.218
1762-0	.300

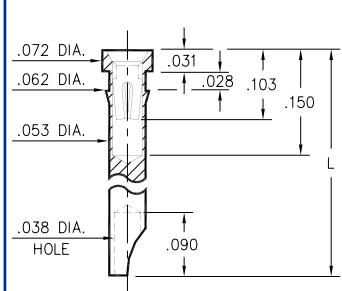


0672-X-15-XX-30-XX-10-0
Swage mount in .049 hole

1024/1104

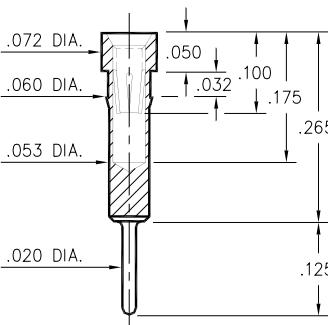
0498

8131

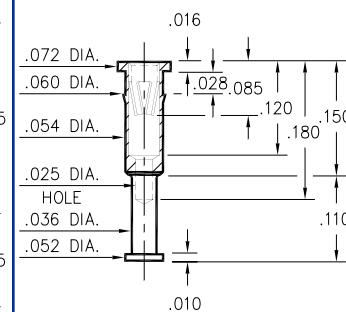


1XX4-0-18-XX-30-XX-10-0
Press-fit in .059 mounting hole

Basic Part Number	Length A
1024-0	.290
1104-0	.450



0498-0-15-XX-35-XX-04-0
Press-fit in .057 mounting hole



8131-0-15-XX-30-XX-10-0
Press-fit in .057 mounting hole

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

**DIMENSION IN INCHES
TOLERANCES ON:**
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

ORDER CODE: XXXX - X - 1X - XX - XX - XX - XX - 0

BASIC PART # _____

SPECIFY SHELL FINISH: _____

01 200 μ " TIN/LEAD OVER NICKEL
15 10 μ " GOLD OVER NICKEL

SPECIFY CONTACT FINISH: _____

02 200 μ " TIN/LEAD OVER NICKEL
14 10 μ " GOLD OVER NICKEL
27 30 μ " GOLD OVER NICKEL

SELECT CONTACT

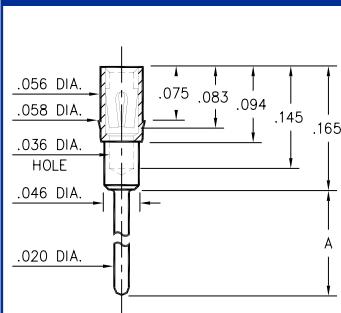
#30 OR #35 CONTACT (DATA ON PAGES 208 & 209)



PIN RECEPTACLES
for .015" - .025" diameter pins



1802/4030/8866

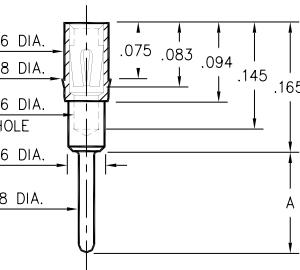


XXXX-0-15-XX-43-XX-04-0

Press-fit in .057 mounting hole

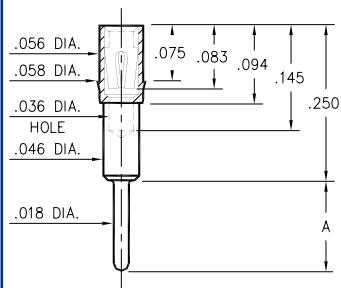
Basic Part Number	Length A
1802-0	.125
4030-0	.815
8866-0	.775

1803/1805



Basic Part Number	Length A
1803-0	.145
1805-0	.213

1804/1806

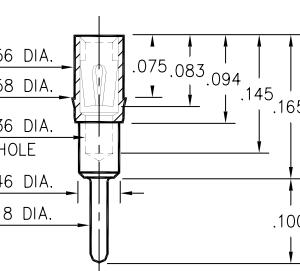


180X-0-15-XX-43-XX-04-0

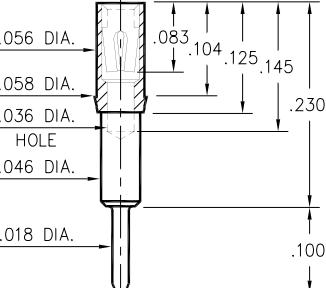
Press-fit in .057 mounting hole

Basic Part Number	Length A
1804-0	.080
1806-0	.115

1808



1807



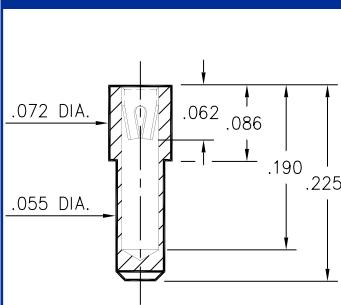
1808-0-15-XX-43-XX-04-0

Press-fit in .057 mounting hole

1807-0-15-XX-43-XX-04-0

Press-fit in .057 mounting hole

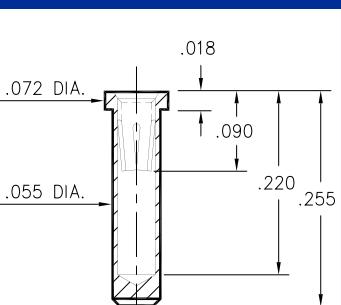
8830



8830-0-15-XX-22-XX-10-0

Solder mount in .057 min. mounting hole

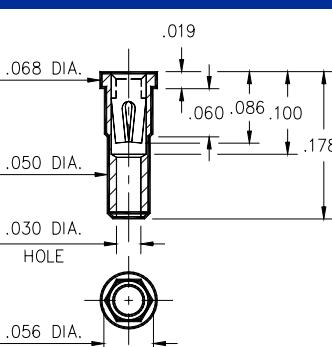
9363



9363-0-15-XX-35-XX-10-0

Solder mount in .057 min. mounting hole

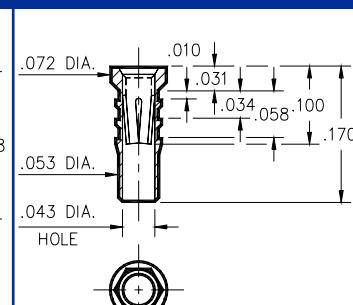
4622



4622-0-15-XX-30-XX-10-0

Hex press-fit in .053 plated thru hole

6252



6252-0-15-XX-32-XX-10-0

Hex press-fit in .057 plated thru hole

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

**DIMENSION IN INCHES
TOLERANCES ON:**
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

ORDER CODE: XXXX - 0 - 1X - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

01 200 μ " TIN/LEAD OVER NICKEL

15 10 μ " GOLD OVER NICKEL

SPECIFY CONTACT FINISH:

02 200 μ " TIN/LEAD OVER NICKEL

14 10 μ " GOLD OVER NICKEL

27 30 μ " GOLD OVER NICKEL

SELECT CONTACT

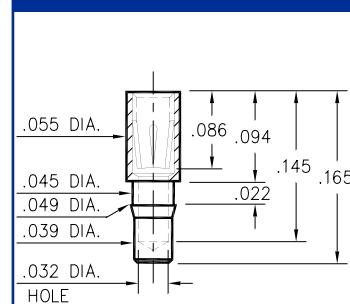
#22, #30, #32, #35 OR #43 CONTACT (DATA ON PAGES 207, 208 & 209)



PIN RECEPTACLES
for .015" - .025" diameter pins



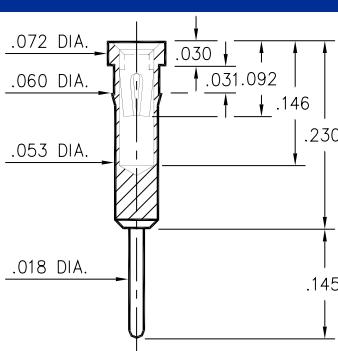
0385



0385-0-15-XX-43-XX-10-0

Press-fit in .046 mounting hole

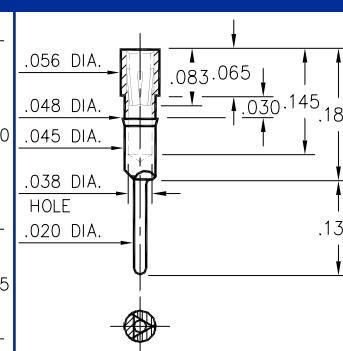
4001



4001-0-15-XX-43-XX-04-0

Press-fit in .057 mounting hole

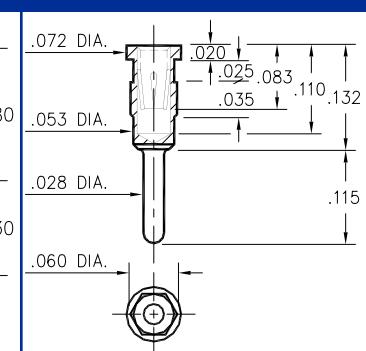
1782



1782-0-15-XX-43-XX-04-0

Press-fit in .045 mounting hole

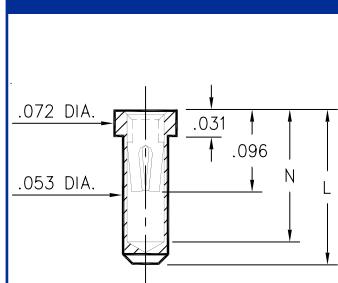
5960



5960-0-15-XX-43-XX-04-0

Hex press-fit in .057 plated thru hole

1401/3185

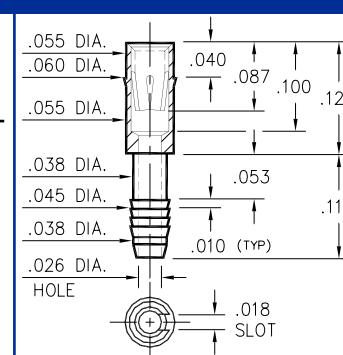


Basic Part Number	Depth N	Length L
1401-0	.145	.165
3185-0	.109	.130

XXXX-0-15-XX-30-XX-10-0

Solder mount in .055 min. mounting hole

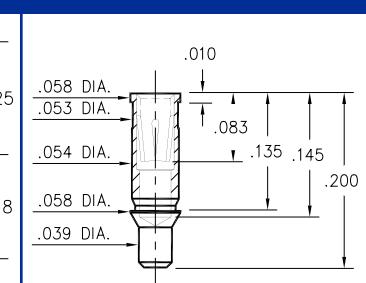
4310



4310-0-31-XX-43-XX-04-0

Compliant press-fit in .040±.003 plated hole. For .090→.130 thick board.

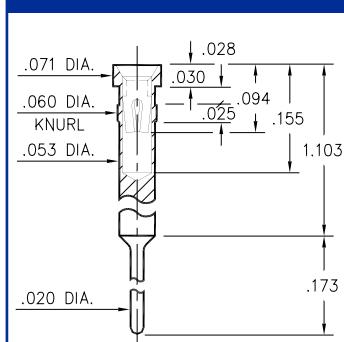
1385



1385-0-15-XX-43-XX-10-0

Surface mount

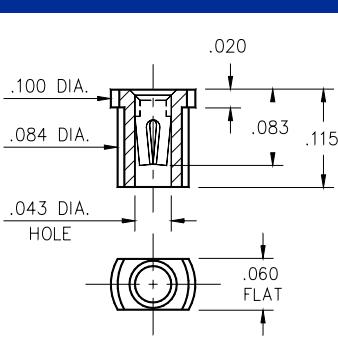
3018



3018-0-15-XX-30-XX-04-0

Press-fit in .057 mounting hole

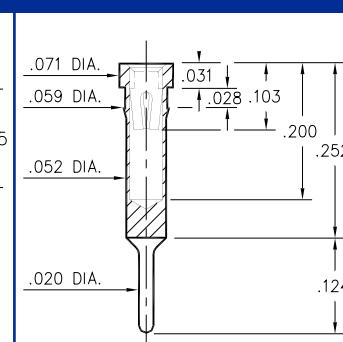
3907



3907-0-18-XX-30-XX-10-0

Surface mount

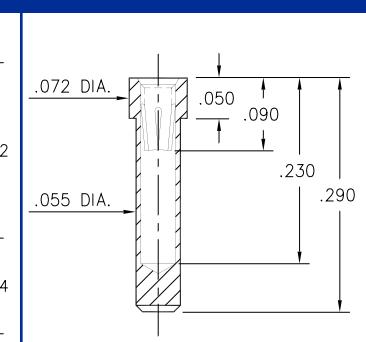
8852



8852-0-15-XX-30-XX-04-0

Press-fit in .056 mounting hole

8363



8363-0-15-XX-35-XX-10-0

Solder mount in .057 min. mounting hole

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

**DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°**

ORDER CODE: XXXX - X - XX - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

01 200μ" TIN/LEAD OVER NICKEL

15 10μ" GOLD OVER NICKEL

SPECIFY CONTACT FINISH:

02 200μ" TIN/LEAD OVER NICKEL

14 10μ" GOLD OVER NICKEL

27 30μ" GOLD OVER NICKEL

SELECT CONTACT

#30, #35 OR #43 CONTACT (DATA ON PAGES 208 & 209)



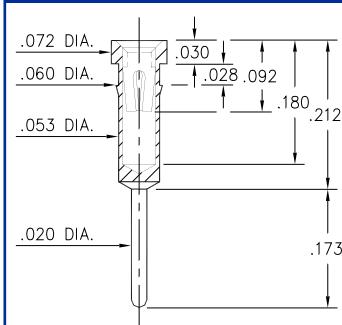
PIN RECEPTACLES
for .015" - .025" diameter pins



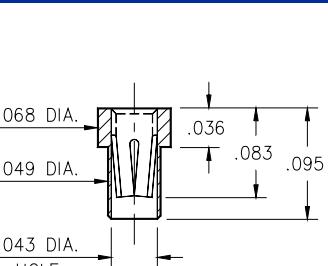
8964

5342

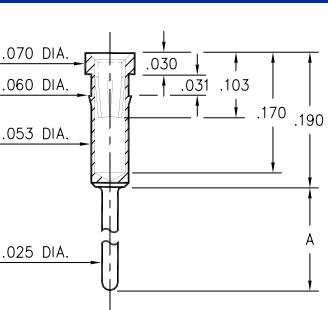
8857



8964-0-15-XX-30-XX-04-0
Press-fit in .057 mounting hole



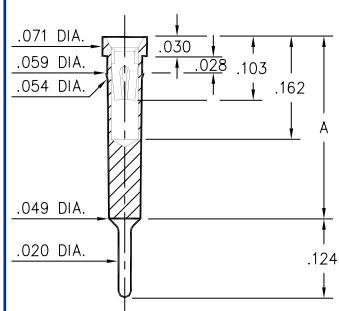
5342-0-15-XX-35-XX-10-0
Solder mount in .051 min. mounting hole



Basic Part Number	Length A
8857-0	.311
8857-1	.448
8857-2	.589
8857-3	.731
8857-4	.871

8857-X-15-XX-32-XX-04-0
Press-fit in .057 mounting hole

8862/8877



88XX-0-15-XX-30-XX-04-0
Press-fit in .056 mounting hole

Basic Part Number	Length A
8862-0	.300
8877-0	.350

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

**DIMENSION IN INCHES
TOLERANCES ON:**
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

ORDER CODE: XXXX - X - 15 - XX - XX - XX - XX - 0

BASIC PART # _____

SPECIFY SHELL FINISH: _____

01 200 μ " TIN/LEAD OVER NICKEL
15 10 μ " GOLD OVER NICKEL

SPECIFY CONTACT FINISH: _____

02 200 μ " TIN/LEAD OVER NICKEL
14 10 μ " GOLD OVER NICKEL
27 30 μ " GOLD OVER NICKEL

SELECT CONTACT

#30, #32 OR #35 CONTACT (DATA ON PAGES 208 & 209)



PIN RECEPTACLES
for .020" - .032" diameter pins



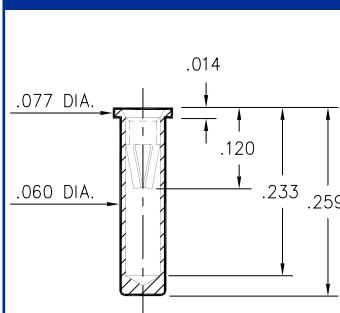
0338	0378	6002	7009
0338-0-15-XX-15-XX-10-0 Solder mount in .057 min. mounting hole	0378-0-15-XX-15-XX-10-0 Solder mount in .082 min. mounting hole	6002-0-19-XX-15-XX-10-0 Solder mount in .059 min. mounting hole	7009-0-19-XX-15-XX-10-0 Press-fit in .063 mounting hole
SPECIFICATIONS	ORDER CODE: <u>XXXX - X - 1X - XX - 15 - XX - 10 - 0</u> BASIC PART # <u> </u> SPECIFY CONTACT FINISH: <u> </u> SPECIFY SHELL FINISH: <u> </u> 01 200 μ " TIN/LEAD OVER NICKEL 01 200 μ " TIN/LEAD OVER NICKEL 14 10 μ " GOLD OVER NICKEL 15 10 μ " GOLD OVER NICKEL 27 30 μ " GOLD OVER NICKEL CONTACT #15 CONTACT (DATA ON PAGE 209)		
SHELL MATERIAL: Brass Alloy 360, 1/2 Hard CONTACT MATERIAL: Beryllium Copper Alloy 172, HT DIMENSION IN INCHES TOLERANCES ON: LENGTHS: ±.005 DIAMETERS: ±.002 ANGLES: ± 2°			



PIN RECEPTACLES
for .022" - .032" diameter pins



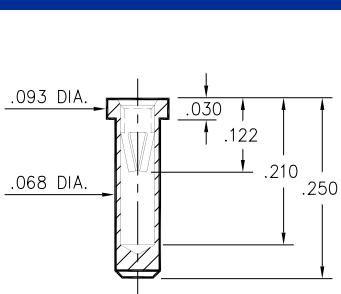
0295



0295-0-15-XX-06-XX-10-0

Solder mount in .063 min.
mounting hole

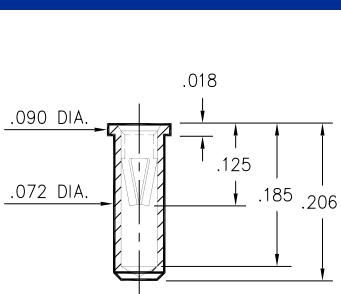
0292



0292-0-15-XX-06-XX-10-0

Solder mount in .071 min.
mounting hole

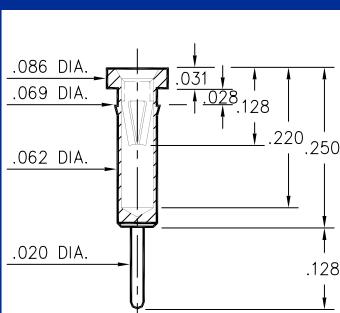
0294



0294-0-15-XX-06-XX-10-0

Solder mount in .076 min.
mounting hole

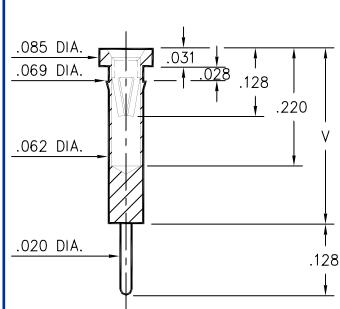
0398



0398-0-15-XX-06-XX-04-0

Press-fit in .066 mounting hole

0397

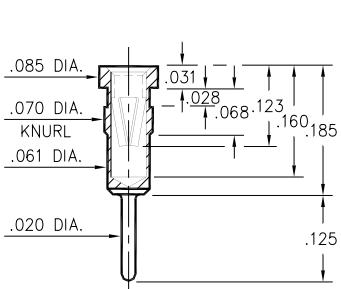


0397-X-15-XX-06-XX-04-0

Press-fit in .066 mounting hole

Basic Part Number	Length V
0397-0	.353
0397-1	.333
0397-2	.413

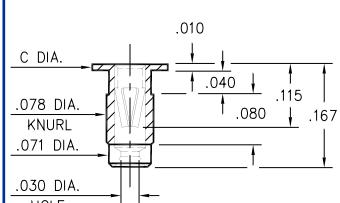
0297



0297-0-15-XX-06-XX-04-0

Press-fit in .067 mounting hole

9019/9039



Basic Part Number	Head Dia. C
9019-0	.125
9039-0	.100

90X9-X-15-XX-06-XX-10-0

Press-fit in .075 mounting hole

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

**DIMENSION IN INCHES
TOLERANCES ON:**
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

ORDER CODE: XXXX - X - 1X - XX - 06 - XX - XX - 0

BASIC PART # _____

SPECIFY SHELL FINISH: _____

- 01 200 μ " TIN/LEAD OVER NICKEL
14 10 μ " GOLD OVER NICKEL
15 10 μ " GOLD OVER NICKEL

CONTACT
#06 CONTACT (DATA ON PAGE 210)

SPECIFY CONTACT FINISH:

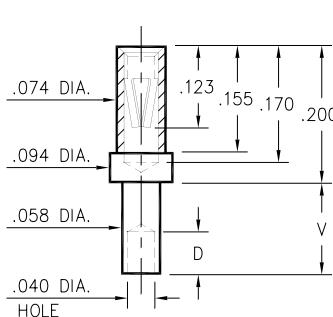
- 01 200 μ " TIN/LEAD OVER NICKEL
14 10 μ " GOLD OVER NICKEL
27 30 μ " GOLD OVER NICKEL



PIN RECEPTACLES
for .022" - .032" diameter pins



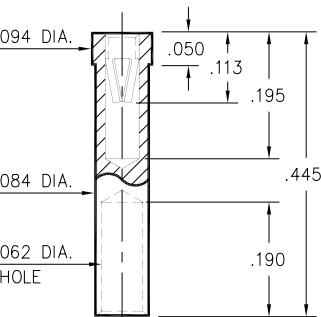
0326



0326-X-19-XX-06-XX-10-0

Swage mount in .060 hole

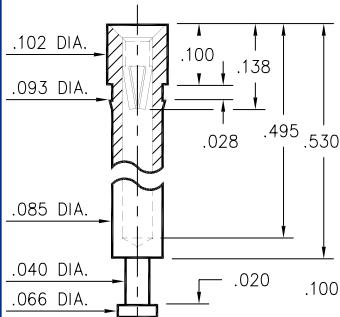
5295



5295-0-19-XX-06-XX-10-0

Solder mount in .086 min. mounting hole

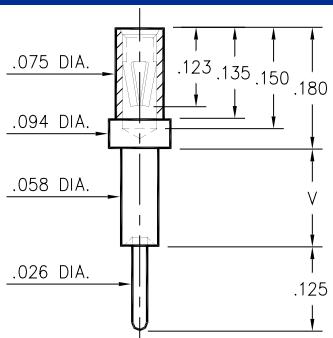
0396



0396-0-15-XX-06-XX-10-0

Press-fit in .090 mounting hole

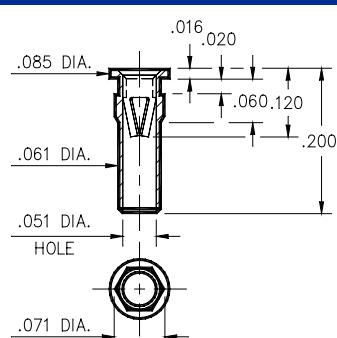
0298



0298-X-15-XX-06-XX-10-0

Swage mount in .060 hole

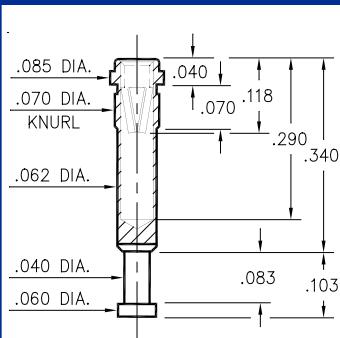
9293



9293-0-15-XX-06-XX-10-0

Hex press-fit in .067 plated thru hole

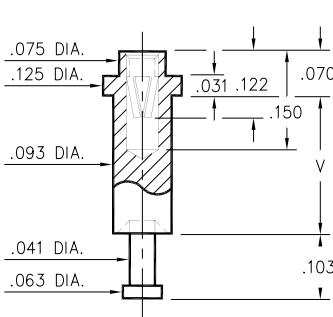
8864



8864-0-15-XX-06-XX-10-0

Press-fit in .067 mounting hole

0664



0664-X-15-XX-06-XX-10-0

Swage mount in .096 hole

Basic Part Number	Board Thickness	Length V
0664-1	.094	.125
0664-2	.125	.156
0664-3	.188	.219

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

**DIMENSION IN INCHES
TOLERANCES ON:**
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

ORDER CODE: XXXX - X - 1X - XX - 06 - XX - 10 - 0

BASIC PART #

SPECIFY SHELL FINISH:

01 200 μ " TIN/LEAD OVER NICKEL

15 10 μ " GOLD OVER NICKEL

SPECIFY CONTACT FINISH:

01 200 μ " TIN/LEAD OVER NICKEL

14 10 μ " GOLD OVER NICKEL

27 30 μ " GOLD OVER NICKEL

CONTACT

#06 CONTACT (DATA ON PAGE 210)



PIN RECEPTACLES
for .022" - .034" diameter pins
and .025" square pins



0291	0293	0287	0285
<p>.079 DIA. .061 DIA. .071 DIA. .018 .015 .050 .083 .120 .145</p> <p>0291-0-15-XX-16-XX-10-0 Hex press-fit in .067 plated thru hole</p>	<p>.086 DIA. .070 DIA. KNURL .061 DIA. .015 .028 .060 .091 .170 .200</p> <p>0293-0-15-XX-16-XX-10-0 Press-fit in .067 mounting hole</p>	<p>.080 DIA. .062 DIA. .051 DIA. HOLE .045 .083 .090</p> <p>0287-0-15-XX-16-XX-10-0 Solder mount in .065 min. mounting hole</p>	<p>.080 DIA. .062 DIA. .051 DIA. HOLE .086 .090 .090</p> <p>0285-0-15-XX-16-XX-10-0 Solder mount in .065 min. mounting hole</p>
0284	8114	0407	0415
<p>.125 DIA. .068 DIA. .020 DIA. .103 .105 .210 .145</p> <p>0284-0-15-XX-16-XX-10-0 Solder mount in .070 min. mounting hole</p>	<p>.064 DIA. .068 DIA. .063 DIA. .020 DIA. .065 .083 .150 .170 .200</p> <p>8114-0-15-XX-16-XX-04-0 Press-fit from underside of pc board into .065 mounting hole</p>	<p>.086 DIA. .069 DIA. .060 DIA. .020 DIA. .031 .028 .098 .220 .540 .160</p> <p>0407-0-15-XX-16-XX-04-0 Press-fit in .066 mounting hole</p>	<p>.078 DIA. .060 DIA. .018 .083 .165 .190</p> <p>0415-0-15-XX-16-XX-10-0 Solder mount in .063 min. mounting hole</p>
0303	0306	0273	7520
<p>.085 DIA. .069 DIA. .062 DIA. .029 DIA. HOLE .031 .028 .083 .140 .352 .150</p> <p>0303-0-19-XX-16-XX-10-0 Wire Termination Press-fit in .067 mounting hole</p>	<p>.075 DIA. MAX. .072 DIA. .055 DIA. .067 DIA. .051 DIA. HOLE .083 .280 .392 .025 .220 .248</p> <p>0306-0-19-XX-16-XX-10-0 Wire Termination #18 gage crimp barrel</p>	<p>.098 DIA. .081 DIA. .073 DIA. .051 DIA. HOLE .015 .028 .083 .210</p> <p>0273-0-15-XX-16-XX-10-0 Press-fit in .078 mounting hole</p>	<p>.086 DIA. .069 DIA. .062 DIA. .030 DIA. .062 DIA. .031 .060 .103 .147 .176 .060 .020</p> <p>7520-0-15-XX-16-XX-10-0 Press-fit in .066 mounting hole</p>
SPECIFICATIONS	ORDER CODE: <u>XXXX - X - 1X - XX - 16 - XX - XX - 0</u>		
SHELL MATERIAL: Brass Alloy 360, 1/2 Hard CONTACT MATERIAL: Beryllium Copper Alloy 172, HT DIMENSION IN INCHES TOLERANCES ON: LENGTHS: $\pm .005$ DIAMETERS: $\pm .002$ ANGLES: $\pm 2^\circ$	BASIC PART # <u> </u> SPECIFY SHELL FINISH: <u> </u> 01 200 μ " TIN/LEAD OVER NICKEL 15 10 μ " GOLD OVER NICKEL	SPECIFY CONTACT FINISH: 01 200 μ " TIN/LEAD OVER NICKEL 14 10 μ " GOLD OVER NICKEL 27 30 μ " GOLD OVER NICKEL	CONTACT #16 CONTACT (DATA ON PAGE 210)



PIN RECEPTACLES
for .022" - .034" diameter pins
and .025" square pins

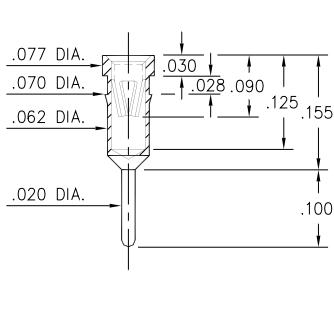


9808

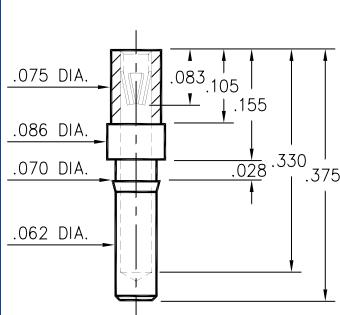
9101

5650

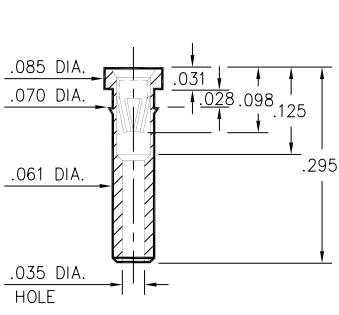
8679



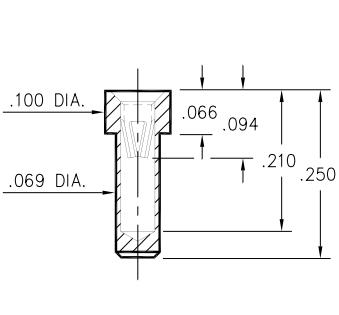
9808-0-15-XX-16-XX-04-0
Press-fit in .067 mounting hole



9101-0-15-XX-16-XX-10-0
Press-fit in .067 mounting hole



5650-0-19-XX-16-XX-10-0
Press-fit in .067 mounting hole

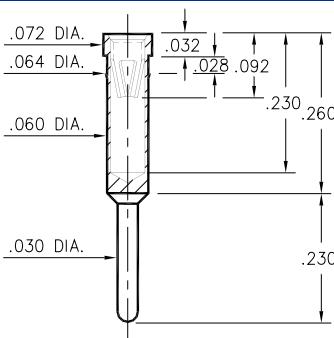


8679-0-15-XX-16-XX-10-0
Solder mount in .071 min. mounting hole

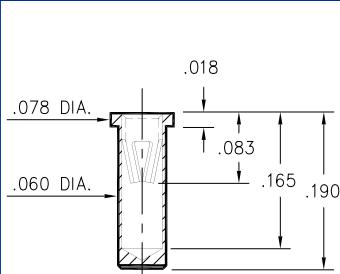
8827

6021

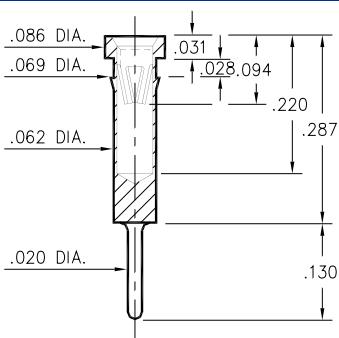
1873



8827-0-15-XX-16-XX-04-0
Press-fit in .061 mounting hole



6021-0-15-XX-16-XX-10-0
Solder mount in .062 min. mounting hole



1873-0-15-XX-16-XX-04-0
Press-fit in .066 mounting hole

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

**DIMENSION IN INCHES
TOLERANCES ON:**
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

ORDER CODE: XXXX - X - 15 - XX - XX - XX - XX - 0

BASIC PART # _____

SPECIFY SHELL FINISH: _____

**01 200 μ " TIN/LEAD OVER NICKEL
15 10 μ " GOLD OVER NICKEL**

SPECIFY CONTACT FINISH:

**01 200 μ " TIN/LEAD OVER NICKEL
14 10 μ " GOLD OVER NICKEL
27 30 μ " GOLD OVER NICKEL**

CONTACT

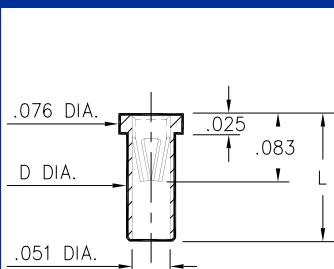
#16 CONTACT (DATA ON PAGE 210)



PIN RECEPTACLES
for .025" - .037" diameter pins
and .025" square pins



0305

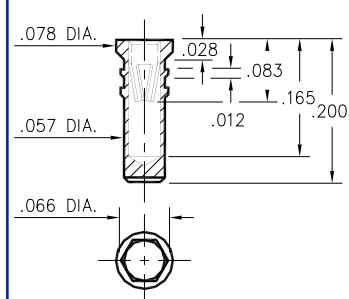


Basic Part Number	Length L	Dia. D
0305-0	.095	.056
0305-1	.105	.058
0305-2	.155	.058

0305-X-15-XX-47-XX-10-0

Solder mount in .059/.061 mounting hole

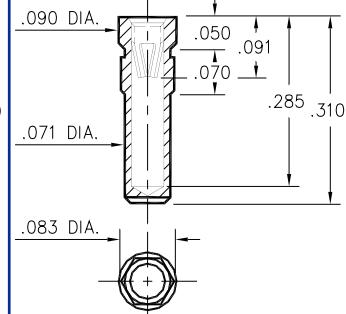
0279



0279-0-15-XX-47-XX-10-0

Hex press-fit in .062 plated thru hole

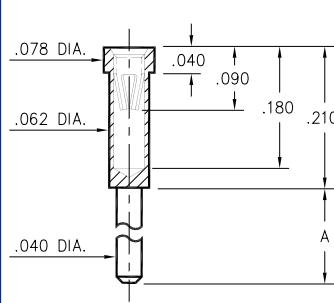
0330



0330-0-15-XX-47-XX-10-0

Hex press-fit in .079 plated thru hole

0300/8300

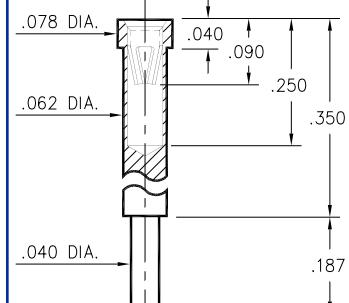


Basic Part Number	Length A
0300-1	.110
0300-2	.187
8300-0	.140

X300-X-15-XX-47-XX-10-0

Solder mount in .042 min. mounting hole

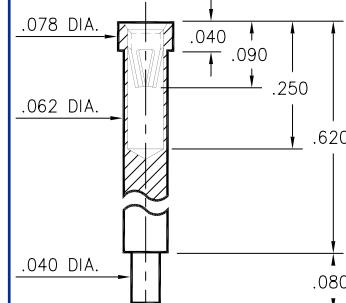
0301



0301-1-15-XX-47-XX-10-0

Solder mount in .042 min. mounting hole

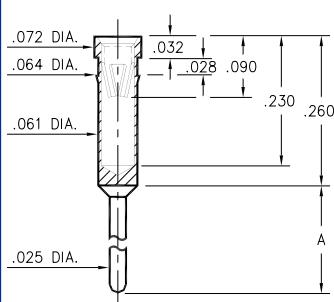
0309



0309-2-15-XX-47-XX-10-0

Solder mount in .042 min. mounting hole

0399

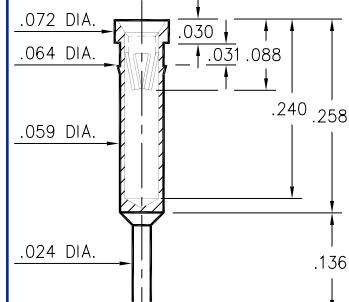


Basic Part Number	Length A
0399-0	.230
0399-1	.180

0399-X-15-XX-47-XX-04-0

Press-fit in .061 mounting hole

1304



1304-0-15-XX-47-XX-04-0

Press-fit in .061 mounting hole

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

ORDER CODE: XXXX - X - 15 - XX - 47 - XX - XX - 0

BASIC PART # _____

SPECIFY SHELL FINISH: _____

01 200 μ " TIN/LEAD OVER NICKEL
15 10 μ " GOLD OVER NICKEL

SPECIFY CONTACT FINISH: _____

01 200 μ " TIN/LEAD OVER NICKEL
14 10 μ " GOLD OVER NICKEL
27 30 μ " GOLD OVER NICKEL

CONTACT

#47 CONTACT (DATA ON PAGE 211)



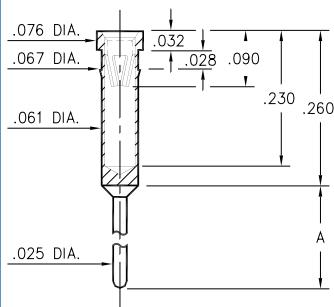
PIN RECEPTACLES
for .025" - .037" diameter pins
and .025" square pins



1305	1306	7305	0400
<p>.066 DIA. .072 DIA. .064 DIA. KNURL .059 DIA. .024 DIA.</p> <p>.016 .030 .028 .228 .258 .025 .028 .228 .059 DIA. .034 DIA. .024 DIA.</p> <p>.228 .126</p> <p>1305-0-15-XX-47-XX-04-0 Press-fit in .061 mounting hole</p>	<p>.066 DIA. .072 DIA. .064 DIA. KNURL .059 DIA. .034 DIA.</p> <p>.016 .030 .028 .228 .258 .025 .028 .228 .549 .059 DIA. .034 DIA. .024 DIA.</p> <p>.126</p> <p>1306-0-15-XX-47-XX-04-0 Press-fit in .061 mounting hole.</p>	<p>.077 DIA. .058 DIA. .051 DIA. HOLE</p> <p>.014 .083 .105 .028 .091 .155 .078 DIA. .070 DIA. .063 DIA. .020 DIA.</p> <p>.125</p> <p>7305-0-15-XX-47-XX-10-0 Solder mount in .060 min. hole.</p>	<p>.078 DIA. .070 DIA. .063 DIA. .020 DIA.</p> <p>.032 .028 .091 .155 .028 .091 .155 .185 .078 DIA. .070 DIA. .063 DIA. .020 DIA.</p> <p>.125</p> <p>0400-0-15-XX-47-XX-04-0 Press-fit in .067 mounting hole.</p>
0335	4614	4615	7614
<p>.080 DIA. .062 DIA. .025 DIA. .068 DIA.</p> <p>.036 .040 .088 .234 .264 .040 .088 .234 .264 .059 DIA. .038 DIA. .045 DIA. .026 DIA. .040 DIA.</p> <p>.280 .124</p> <p>0335-0-15-XX-47-XX-04-0 Hex press-fit in .064 plated thru hole</p>	<p>.072 DIA. .064 DIA. .059 DIA. .038 DIA. .045 DIA. .026 DIA. .040 DIA.</p> <p>.030 .085 .088 .240 .254 .085 .088 .240 .254 .042 .124 .010 (TYP) HOLE</p> <p>.018 SLOT</p> <p>4614-0-31-XX-47-XX-04-0 Compliant press-fit in .040±.003 plated hole. For .060→.100 thick board.</p>	<p>.072 DIA. .064 DIA. .059 DIA. .038 DIA. .045 DIA. .026 DIA. .040 DIA.</p> <p>.030 .085 .088 .240 .254 .085 .088 .240 .254 .050 .163 .010 (TYP) HOLE</p> <p>.018 SLOT</p> <p>4615-0-31-XX-47-XX-04-0 Compliant press-fit in .040±.003 plated hole. For .090→.130 thick board.</p>	<p>.072 DIA. .064 DIA. .059 DIA. .038 DIA. .045 DIA. .035 DIA. .026 DIA. .040 DIA.</p> <p>.030 .032 .083 .150 .180 .032 .083 .150 .180 .020 .104 .010 (TYP) HOLE</p> <p>.018 SLOT</p> <p>7614-0-31-XX-47-XX-04-0 Compliant press-fit in .040±.003 plated hole. For .060→.100 thick board.</p>
8401	2400	6857	9393
<p>.079 DIA. .058 DIA. .031 DIA. .067 DIA.</p> <p>.028 .030 .089 .144 .165 .030 .089 .144 .165 .020 .120 .020 .075</p> <p>8401-0-15-XX-47-XX-04-0 Hex press-fit in .063 plated thru hole</p>	<p>.077 DIA. .069 DIA. .062 DIA. .020 DIA.</p> <p>.032 .028 .095 .155 .185 .028 .095 .155 .185 .075</p> <p>2400-0-15-XX-47-XX-04-0 Press-fit in .066 mounting hole.</p>	<p>.072 DIA. .064 DIA. .061 DIA.</p> <p>.031 .028 .087 .230 .280 .028 .087 .230 .280 .051 DIA. HOLE</p> <p>6857-0-15-XX-47-XX-10-0 Press-fit in .061 mounting hole.</p>	<p>.086 DIA. .070 DIA. .062 DIA. .051 DIA.</p> <p>.015 .020 .060 .200 .020 .060 .200 .083 .051 DIA. HOLE</p> <p>9393-0-15-XX-47-XX-10-0 Press-fit in .067 mounting hole.</p>
SPECIFICATIONS	ORDER CODE: <u>XXXX - X - 15 - XX - 47 - XX - XX - 0</u>		
SHELL MATERIAL: Brass Alloy 360, 1/2 Hard CONTACT MATERIAL: Beryllium Copper Alloy 172, HT DIMENSION IN INCHES TOLERANCES ON: LENGTHS: ±.005 DIAMETERS: ±.002 ANGLES: ± 2°	BASIC PART # <u> </u> SPECIFY SHELL FINISH: <u> </u> 01 200µ" TIN/LEAD OVER NICKEL 15 10µ" GOLD OVER NICKEL	SPECIFY CONTACT FINISH: 01 200µ" TIN/LEAD OVER NICKEL 14 10µ" GOLD OVER NICKEL 27 30µ" GOLD OVER NICKEL	CONTACT #47 CONTACT (DATA ON PAGE 211)



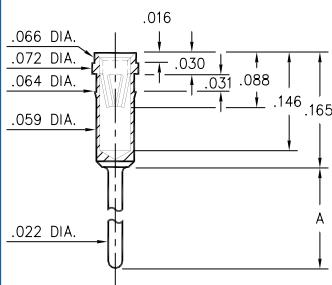
PIN RECEPTACLES
for .025" - .037" diameter pins
and .025" square pins

**0401/6401**

Basic Part Number	Length A
0401-0	.340
6401-0	.540

X401-0-15-XX-47-XX-04-0

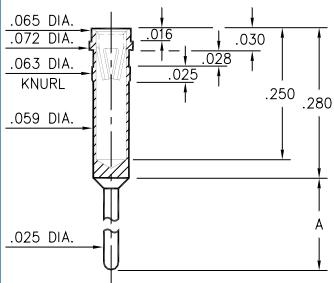
Press-fit in .064 mounting hole

1303/8303

Basic Part Number	Length A
1303-0	.125
8303-0	.800

X303-0-15-XX-47-XX-04-0

Press-fit in .061 mounting hole

4094/4095

Basic Part Number	Length A
4094-0	.260
4095-0	.635

409X-0-15-XX-47-XX-04-0

Press-fit in .061 mounting hole

SPECIFICATIONS**SHELL MATERIAL:**
Brass Alloy 360, 1/2 Hard**CONTACT MATERIAL:**
Beryllium Copper Alloy 172, HT**DIMENSION IN INCHES**
TOLERANCES ON:
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$ **ORDER CODE: XXXX - X - 15 - XX - 47 - XX - XX - 0****BASIC PART #** _____**SPECIFY SHELL FINISH:** _____01 200 μ " TIN/LEAD OVER NICKEL
15 10 μ " GOLD OVER NICKEL**SPECIFY CONTACT FINISH:**01 200 μ " TIN/LEAD OVER NICKEL
14 10 μ " GOLD OVER NICKEL
27 30 μ " GOLD OVER NICKEL**CONTACT**

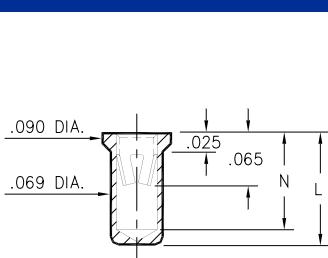
#47 CONTACT (DATA ON PAGE 211)



PIN RECEPTACLES
for .037" - .043" diameter pins



0331/9353

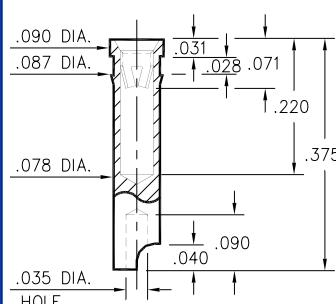


Basic Part Number	Length L	Depth N
0331-0	.150	.127
9353-0	.170	.147

X3XX-X-15-XX-18-XX-10-0

Solder mount in .071 min.
mounting hole

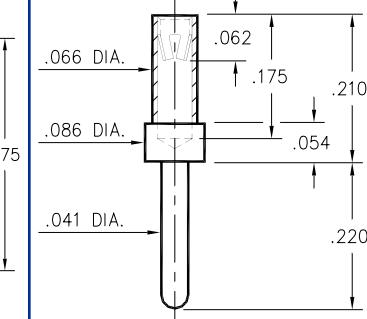
7405



7405-0-18-XX-18-XX-10-0

Press-fit in .084 mounting hole

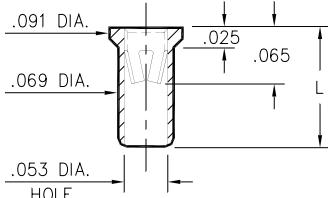
3450



3450-0-15-XX-18-XX-04-0

Solder mount in .043 min.
mounting hole

9354/7406

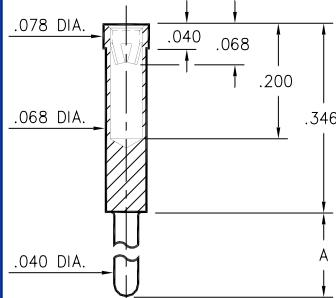


Basic Part Number	Length L
7406-0	.120
9354-0	.170

XXXX-0-15-XX-18-XX-10-0

Solder mount in .071 min.
mounting hole

0319

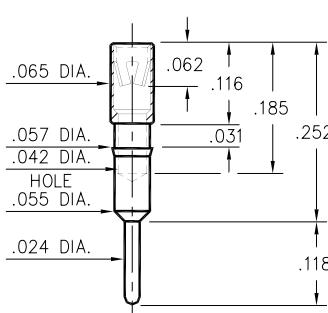


Basic Part Number	Length A
0319-0	.240
0319-1	.280

0319-X-15-XX-18-XX-04-0

Solder mount in .042 min.
mounting hole

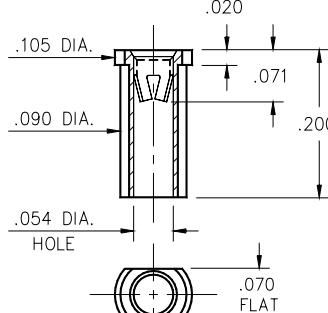
1313



1313-0-15-XX-18-XX-04-0

Press-fit in .056 mounting hole

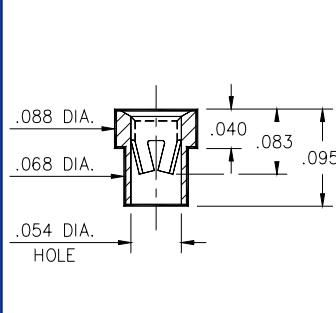
6628



6628-0-18-XX-18-XX-10-0

Surface mount

3520



3520-0-15-XX-18-XX-10-0

Solder mount in .070 min.
mounting hole

8331



8331-0-15-XX-18-XX-10-0

Solder mount in .071 min.
mounting hole

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

**DIMENSION IN INCHES
TOLERANCES ON:**
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

ORDER CODE: XXXX - X - 1X - XX - 18 - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

01 200 μ " TIN/LEAD OVER NICKEL

15 10 μ " GOLD OVER NICKEL

SPECIFY CONTACT FINISH:

01 200 μ " TIN/LEAD OVER NICKEL

14 10 μ " GOLD OVER NICKEL

27 30 μ " GOLD OVER NICKEL

CONTACT

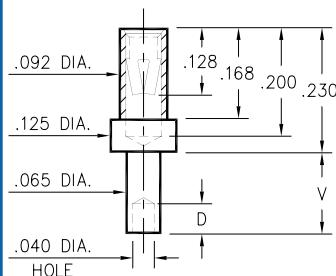
#18 CONTACT (DATA ON PAGE 211)



PIN RECEPTACLES
for .032" - .046" diameter pins



0344

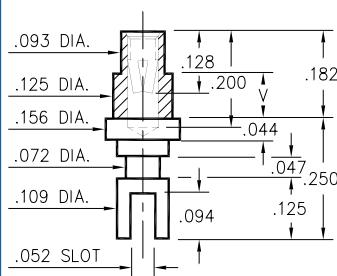


Basic Part Number	Board Thickness	Length V	Depth D
0344-1	.031	.062	.040
0344-2	.062	.094	.062
0344-3	.094	.125	.062
0344-4	.125	.156	.062

0344-X-19-XX-34-XX-10-0

Swage mount in .067 hole

0349

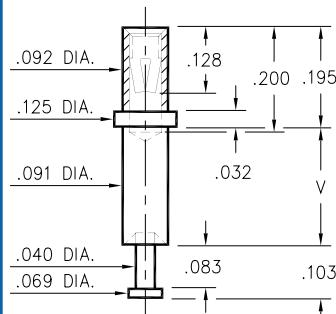


Basic Part Number	Board Thickness	Length V
0349-2	.062	.094
0349-3	.094	.125
0349-4	.125	.156

0349-X-31-XX-34-XX-10-0

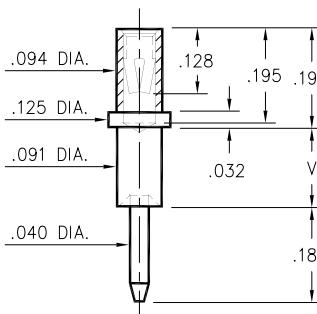
Swage mount in .129 hole

0323/0324



0323-X-15-XX-34-XX-10-0

Swage mount in .094 hole

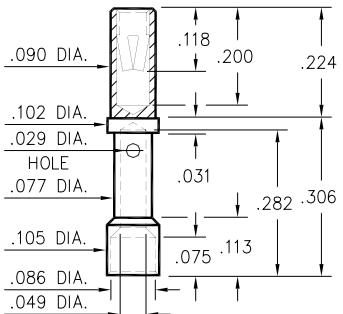


0324-X-15-XX-34-XX-10-0

Swage mount in .094 hole

Basic Part Number	Board Thickness	Length V
032X-1	.031	.062
032X-2	.062	.094
032X-3	.094	.125
032X-4	.125	.156
032X-5	.188	.219

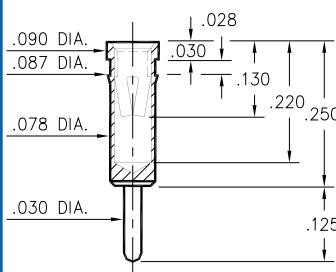
0348



0348-0-33-XX-34-XX-10-0

#20A Crimp Barrel

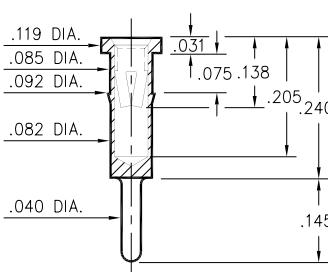
0405



0405-0-15-XX-34-XX-04-0

Press-fit in .084 mounting hole

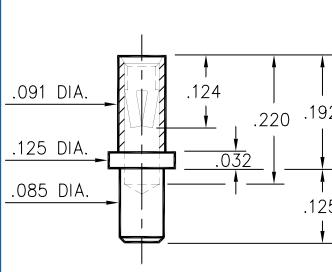
0336



0336-0-15-XX-34-XX-04-0

Press-fit in .089 mounting hole

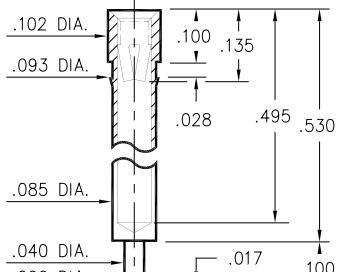
0322



0322-0-15-XX-34-XX-10-0

Solder mount in .089 min. mounting hole

0325



0325-0-15-XX-34-XX-10-0

Press-fit in .090 mounting hole

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

ORDER CODE: XXXX - X - XX - XX - 34 - XX - XX - 0

BASIC PART # _____

SPECIFY SHELL FINISH: _____

01 200 μ " TIN/LEAD OVER NICKEL

15 10 μ " GOLD OVER NICKEL

SPECIFY CONTACT FINISH: _____

01 200 μ " TIN/LEAD OVER NICKEL

14 10 μ " GOLD OVER NICKEL

27 30 μ " GOLD OVER NICKEL

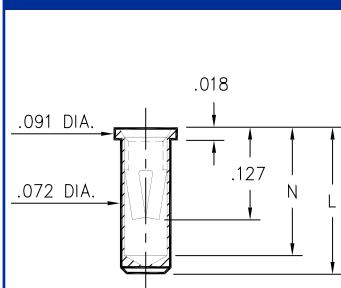
CONTACT
#34 CONTACT (DATA ON PAGE 212)



PIN RECEPTACLES
for .032" - .046" diameter pins



0327/0351/0373

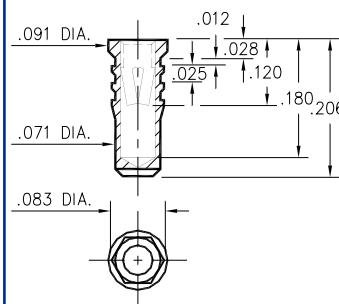


Basic Part Number	Length L	Depth N
0327-0	.206	.180
0351-0	.226	.200
0373-0	.270	.241

03XX-0-15-XX-34-XX-10-0

Solder mount in .075 min.
mounting hole

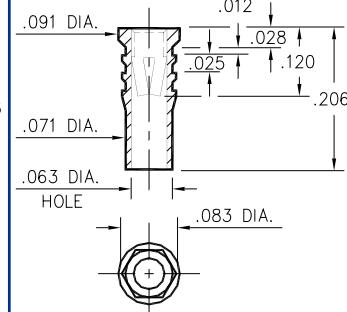
0328



0328-0-15-XX-34-XX-10-0

Hex press-fit in .079
plated thru hole

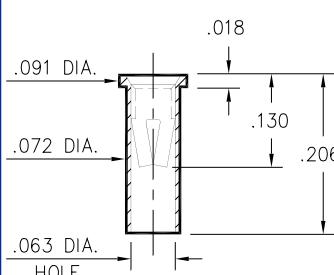
0334



0334-0-15-XX-34-XX-10-0

Hex press-fit in .079
plated thru hole

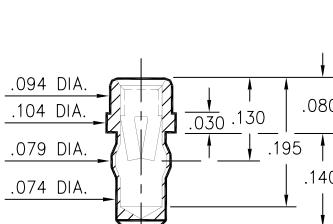
0312



0312-0-15-XX-34-XX-10-0

Solder mount in .075 min.
mounting hole

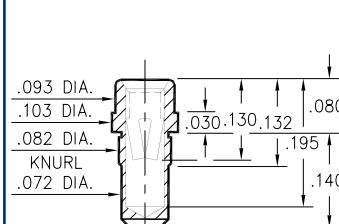
0333



0333-0-42-XX-34-XX-10-0

Press-fit in .076 mounting hole

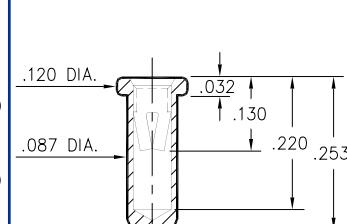
0357



0357-0-15-XX-34-XX-10-0

Press-fit in .078 mounting hole

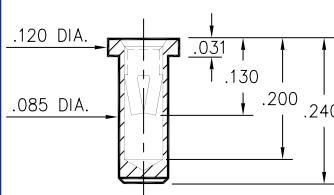
0317



0317-0-15-XX-34-XX-10-0

Solder mount in .091min.
mounting hole

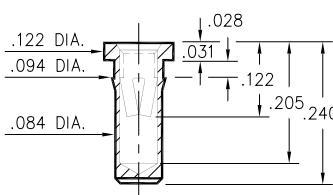
0340



0340-0-15-XX-34-XX-10-0

Solder mount in .087 min.
mounting hole

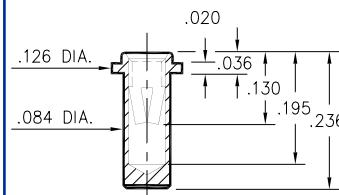
0345



0345-0-15-XX-34-XX-10-0

Press-fit in .089 mounting hole

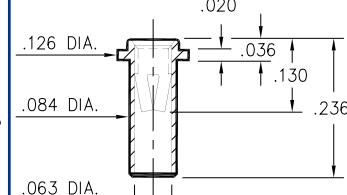
0316



0316-0-15-XX-34-XX-10-0

Solder mount in .087 min.
mounting hole

0314



0314-0-15-XX-34-XX-10-0

Solder mount in .087 min.
mounting hole

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

ORDER CODE: XXXX - X - XX - XX - 34 - XX - 10 - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200 μ " TIN/LEAD OVER NICKEL
- 15 10 μ " GOLD OVER NICKEL

SPECIFY CONTACT FINISH:

- 01 200 μ " TIN/LEAD OVER NICKEL
- 14 10 μ " GOLD OVER NICKEL
- 27 30 μ " GOLD OVER NICKEL

CONTACT

#34 CONTACT (DATA ON PAGE 212)



PIN RECEPTACLES
for .032" - .046" diameter pins



0359	0358	0360	0343
0359-0-15-XX-34-XX-10-0 Press-fit in .090 mounting hole	0358-0-15-XX-34-XX-10-0 Press-fit in .090 mounting hole	0360-0-15-XX-34-XX-10-0 Press-fit in .090 mounting hole	0343-0-15-XX-34-XX-10-0 Press-fit in .090 mounting hole
0356	6659	0347	0329
0356-0-15-XX-34-XX-10-0 Solder mount in .102 min. mounting hole	6659-0-15-XX-34-XX-10-0 Solder mount in .102 min. mounting hole	0347-0-15-XX-34-XX-10-0 Solder mount in .120 min. mounting hole	0329-0-15-XX-34-XX-10-0 Solder mount in .075 min. mounting hole. "knock out" bottom.
0814	5059	8360	9359
0814-0-15-XX-34-XX-04-0 Solder mount in .082 min. mounting hole	5059-0-15-XX-34-XX-04-0 Press-fit in .090 mounting hole	8360-0-15-XX-34-XX-10-0 Press-fit in .087 mounting hole	9359-0-15-XX-34-XX-10-0 Press-fit in .090 mounting hole
SPECIFICATIONS	ORDER CODE: <u>XXXX - 0 - 15 - XX - 34 - XX - XX - 0</u> BASIC PART # SPECIFY SHELL FINISH: 01 100 μ " TIN/LEAD OVER NICKEL 15 10 μ " GOLD OVER NICKEL		
DIMENSION IN INCHES TOLERANCES ON: LENGTHS: $\pm .005$ DIAMETERS: $\pm .002$ ANGLES: $\pm 2^\circ$	SPECIFY CONTACT FINISH: 01 200 μ " TIN/LEAD OVER NICKEL 14 10 μ " GOLD OVER NICKEL 27 30 μ " GOLD OVER NICKEL		
CONTACT #34 CONTACT (DATA ON PAGE 212)			



PIN RECEPTACLES
for .032" - .046" diameter pins (#34 contact)



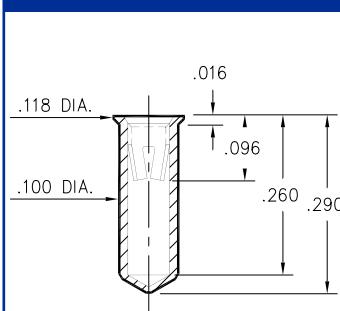
8838	3100	8853	6800
8838-0-15-XX-34-XX-10-0 Solder mount in .086 min. mounting hole	3100-0-15-XX-34-XX-10-0 Solder mount in .074 min. mounting hole	8853-0-15-XX-34-XX-10-0 Press-fit in .071 mounting hole	6800-0-15-XX-34-XX-04-0 Solder mount in .080 min. mounting hole
SPECIFICATIONS	ORDER CODE: XXXX - 0 - 15 - XX - 34 - XX - 10 - 0		
SHELL MATERIAL: Brass Alloy 360, 1/2 Hard	BASIC PART # _____		
CONTACT MATERIAL: Beryllium Copper Alloy 172, HT	SPECIFY SHELL FINISH: _____		
DIMENSION IN INCHES TOLERANCES ON: LENGTHS: ±.005 DIAMETERS: ±.002 ANGLES: ±.002°	15 200µ" TIN/LEAD OVER NICKEL 15 10µ" GOLD OVER NICKEL	SPECIFY CONTACT FINISH: 01 200µ" TIN/LEAD OVER NICKEL 14 10µ" GOLD OVER NICKEL 27 30µ" GOLD OVER NICKEL	
		CONTACT #34 CONTACT (DATA ON PAGE 212)	



PIN RECEPTACLES
for .040" - .050" diameter pins



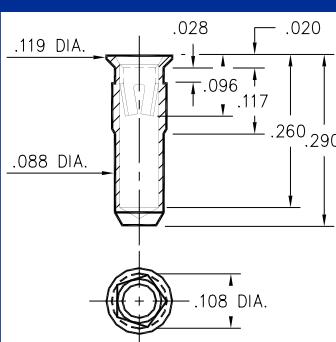
0355



0355-0-15-XX-02-XX-10-0

Solder mount in .102 min.
mounting hole

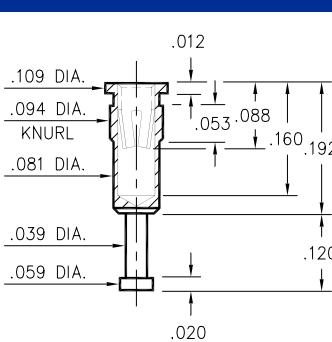
0354



0354-0-15-XX-02-XX-10-0

Pentagonal press-fit in .104 min.
plated thru hole

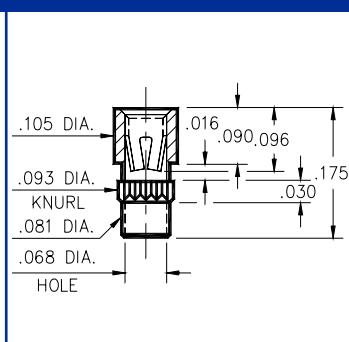
3490



3490-0-15-XX-02-XX-10-0

Press-fit in .091 mounting hole

3808



3808-0-15-XX-02-XX-10-0

Press-fit in .090 mounting hole

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

**DIMENSION IN INCHES
TOLERANCES ON:**
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

ORDER CODE: XXXX - X - 15 - XX - 02 - XX - 10 - 0

BASIC PART #

SPECIFY SHELL FINISH:

01 200 μ " TIN/LEAD OVER NICKEL
15 10 μ " GOLD OVER NICKEL

SPECIFY CONTACT FINISH:

01 200 μ " TIN/LEAD OVER NICKEL
14 10 μ " GOLD OVER NICKEL
27 30 μ " GOLD OVER NICKEL

CONTACT

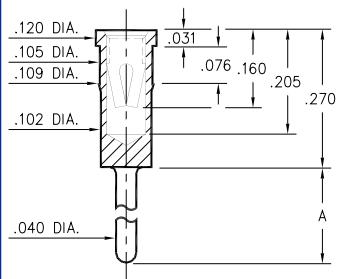
#02 CONTACT (DATA ON PAGE 213)



PIN RECEPTACLES
for .040" - .060" diameter pins



0433/8433

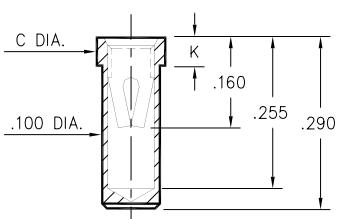


Basic Part Number	Length A
0433-0	.120
8433-0	.330

X433-0-15-XX-03-XX-04-0

Press-fit in .106 mounting hole

0435/0436

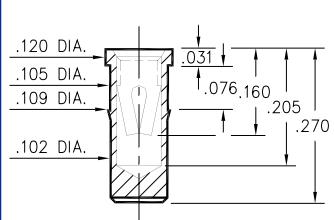


Basic Part Number	Di. C	Length K
0435-0	.118	.050
0436-0	.125	.070

043X-0-15-XX-03-XX-10-0

Solder mount in .102 min. mounting hole

0434



0434-0-15-XX-03-XX-10-0

Press-fit in .106 mounting hole

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

**DIMENSION IN INCHES
TOLERANCES ON:**
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

ORDER CODE: XXXX - X - 15 - XX - 03 - XX - 00

BASIC PART # _____

SPECIFY SHELL FINISH: _____

01 200 μ " TIN/LEAD OVER NICKEL
15 10 μ " GOLD OVER NICKEL

SPECIFY CONTACT FINISH:

01 200 μ " TIN/LEAD OVER NICKEL
14 10 μ " GOLD OVER NICKEL
27 30 μ " GOLD OVER NICKEL

SELECT CONTACT

#03 CONTACT (DATA ON PAGE 213)



PIN RECEPTACLES
for .048" - .064" diameter pins (#13 contact)
and .045" - .065" diameter pins (#23 contact)



0364	0363	0365	0366
<p>.120 DIA. .098 DIA. .018 .140 .180 .213</p> <p>0364-0-15-XX-13-XX-10-0 Solder mount in .100 min. mounting hole</p>	<p>.118 DIA. .100 DIA. .050 .117 .255 .290</p> <p>0363-0-15-XX-23-XX-10-0 Solder mount in .102 min. mounting hole</p>	<p>.026 .120 DIA. .098 DIA. .109 DIA. .100 .190 .223</p> <p>0365-0-15-XX-23-XX-10-0 Hex press-fit in .105 plated thru hole</p>	<p>.137 DIA. .112 DIA. KNURL .103 DIA. .088 DIA. HOLE .015 .037 .105 .134 .250</p> <p>0366-0-15-XX-13-XX-10-0 Press-fit in .109 mounting hole</p>
0372	0362	0367	9324
<p>.118 DIA. .100 DIA. .088 DIA. .012 .134 .225</p> <p>0372-0-15-XX-13-XX-10-0 Solder mount in .102 min. mounting hole</p>	<p>.115 DIA. .100 DIA. .088 DIA. .012 .110 or .130 .293</p> <p>0362-0-15-XX-X3-XX-10-0 Solder mount in .102 min. mounting hole</p>	<p>.125 DIA. .100 DIA. .032 .034 .100 .140 .190 .095</p> <p>0367-0-15-XX-23-XX-10-0 Square press-fit in .040 plated thru hole</p>	<p>.119 DIA. .109 DIA. .104 DIA. .041 DIA. .031 .076 .117 .200 .250 .145</p> <p>9324-0-15-XX-23-XX-04-0 Press-fit in .106 mounting hole</p>
0492	0381	4034	3044
<p>.119 DIA. .106 DIA. .109 DIA. .103 DIA. .041 DIA. .031 .076 .140 .200 .270 .125</p> <p>0492-0-15-XX-13-XX-04-0 Press-fit in .106 mounting hole</p>	<p>.110 DIA. .107 DIA. .098 DIA. .052 .1048 .110 .255 .290</p> <p>0381-0-15-XX-23-XX-10-0 Press-fit in .104 mounting hole</p>	<p>.123 DIA. .112 DIA. .102 DIA. .040 DIA. .031 .030 .110 .375 .600 .125</p> <p>4034-0-15-XX-23-XX-04-0 Press-fit in .109 mounting hole</p>	<p>.117 DIA. .102 DIA. .068 DIA. .031 .117 .260 .310 .100</p> <p>3044-0-15-XX-23-XX-04-0 Solder mount in .104 min. mounting hole</p>
SPECIFICATIONS <p>SHELL MATERIAL: Brass Alloy 360, 1/2 Hard</p> <p>CONTACT MATERIAL: Beryllium Copper Alloy 172, HT</p> <p>DIMENSION IN INCHES TOLERANCES ON: LENGTHS: $\pm .005$ DIAMETERS: $\pm .002$ ANGLES: $\pm 2^\circ$</p>	<p>ORDER CODE: <u>XXXX - X - 15 - XX - X3 - XX - XX - 0</u></p> <p>BASIC PART # <u> </u></p> <p>SPECIFY SHELL FINISH: <u> </u></p> <p>01 200μ" TIN/LEAD OVER NICKEL 15 10μ" GOLD OVER NICKEL</p> <p>SPECIFY CONTACT FINISH:</p> <p>01 200μ" TIN/LEAD OVER NICKEL 14 10μ" GOLD OVER NICKEL 27 30μ" GOLD OVER NICKEL</p> <p>SELECT CONTACT #13 OR #23 CONTACT (DATA ON PAGE 214)</p>		



PIN RECEPTACLES
for .048" - .064" diameter pins (#13 contact)
and .045" - .065" diameter pins (#23 contact)



0496	0368	8067	1105
 0496-0-15-XX-23-XX-10-0 Press-fit in .106 mounting hole	 0368-0-33-XX-13-XX-10-0 #16A Crimp Barrel	 8067-0-19-XX-13-XX-10-0 Wire Termination	 1105-0-15-XX-13-XX-04-0 Press-fit in .080 mounting hole
8730	3667	9372	4582
 8730-0-19-XX-23-XX-10-0 Wire Termination	 3667-0-19-XX-23-XX-10-0 Wire Termination	 9372-0-15-XX-23-XX-10-0 Solder mount in .102 min. mounting hole	 4582-0-15-XX-23-XX-10-0 Square press-fit in .040 plated thru hole
5834	9401	9801	8829
 5834-0-15-XX-23-XX-10-0 Press-fit in .107 mounting hole	 9401-0-15-XX-23-XX-10-0 Solder mount in .102 min. mounting hole	 9801-0-15-XX-23-XX-10-0 Solder mount in .102 min. mounting hole	 8829-0-15-XX-23-XX-10-0 Solder mount in .102 min. mounting hole
SPECIFICATIONS		ORDER CODE: <u>XXXX - X - XX - XX - X3 - XX - XX - 0</u> BASIC PART # <u> </u> SPECIFY SHELL FINISH: <u> </u> 01 200 μ " TIN/LEAD OVER NICKEL 15 10 μ " GOLD OVER NICKEL	
DIMENSION IN INCHES TOLERANCES ON: LENGTHS: $\pm .005$ DIAMETERS: $\pm .002$ ANGLES: $\pm 2^\circ$		SPECIFY CONTACT FINISH: 01 200 μ " TIN/LEAD OVER NICKEL 14 10 μ " GOLD OVER NICKEL 27 30 μ " GOLD OVER NICKEL SELECT CONTACT #13 OR #23 CONTACT (DATA ON PAGE 214)	



PIN RECEPTACLES
for .048" - .064" diameter pins (#13 contact)
for .045" - .065" diameter pins (#23 contact)



8365	8996	9064	9280
<p>8365-0-15-XX-13-XX-10-0 Hex-pressfit in .106 plated thru hole.</p>	<p>8996-0-31-XX-13-XX-04-0 Compliant press-fit in .040±.003 plated hole. For .060→.100 thick board.</p>	<p>9064-0-15-XX-13-XX-10-0 Solder mount in .102 min. mounting hole.</p>	<p>9280-0-15-XX-13-XX-10-0 Solder mount in .102 min. mounting hole</p>
<p>SPECIFICATIONS</p> <p>SHELL MATERIAL: Brass Alloy 360, 1/2 Hard</p> <p>CONTACT MATERIAL: Beryllium Copper Alloy 172, HT</p> <p>DIMENSION IN INCHES TOLERANCES ON: LENGTHS: ±.005 DIAMETERS: ±.002 ANGLES: ± 2°</p>	<p>ORDER CODE: XXXX - X - 15 - XX - XX - XX - 10 - 0</p> <p>BASIC PART # _____</p> <p>SPECIFY SHELL FINISH: _____</p> <p>01 200μ" TIN/LEAD OVER NICKEL 15 10μ" GOLD OVER NICKEL</p>	<p>SPECIFY CONTACT FINISH:</p> <p>01 200μ" TIN/LEAD OVER NICKEL 14 10μ" GOLD OVER NICKEL 27 30μ" GOLD OVER NICKEL</p>	<p>SELECT CONTACT</p> <p>#13 OR #23 CONTACT (DATA ON PAGE 214)</p>



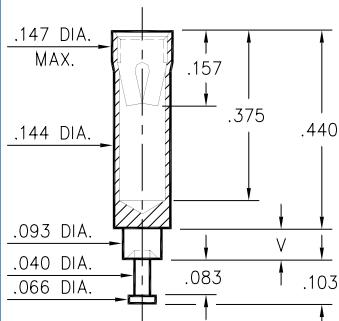
PIN RECEPTACLES
for .065" - .082" diameter pins



0394	0393	0391	9016
<p>.143 DIA. .118 DIA. .025 .152 .357 .400</p> <p>0394-0-15-XX-07-XX-10-0 Solder mount in .120 min. mounting hole</p>	<p>.143 DIA. .187 DIA. .142 DIA. .053 .100 .157 .340 .412</p> <p>0393-0-15-XX-07-XX-10-0 Solder mount in .144 min. mounting hole</p>	<p>.189 DIA. .157 DIA. .032 .155 .260 .309</p> <p>0391-0-15-XX-07-XX-10-0 Solder mount in .159 min. mounting hole</p>	<p>.172 DIA. .134 DIA. KNURL .125 DIA. .107 DIA. HOLE .080 .040 .147 .082 .240</p> <p>9016-0-15-XX-07-XX-10-0 Press-fit in .131 mounting hole</p>
0493	0490	0616	0387
<p>.157 DIA. .147 DIA. .137 DIA. .032 .028 .157 .195 .223</p> <p>0493-0-15-XX-07-XX-10-0 Press-fit in .144 mounting hole</p>	<p>.156 DIA. .147 DIA. .136 DIA. .031 .028 .161 .220 .250 .060 DIA. .255</p> <p>0490-0-15-XX-07-XX-04-0 Press-fit in .144 mounting hole</p>	<p>.157 DIA. .147 DIA. .137 DIA. .030 .028 .156 .220 .250 .081 DIA. .045 DIA. HOLE .075 .150 .205</p> <p>0616-0-18-XX-07-XX-10-0 Press-fit in .144 mounting hole</p>	<p>.147 DIA. MAX. .144 DIA. .060 DIA. .157 .375 .440 .125</p> <p>0387-0-15-XX-07-XX-04-0 Solder mount in .063 min. mounting hole</p>
0370	4040	0491	9214
<p>.144 DIA. .128 DIA. .100 DIA. .050 DIA. .073 DIA. HOLE .090 .100 .157 .375 .440 .250</p> <p>0370-0-19-XX-07-XX-10-0 #18 Gage crimp barrel</p>	<p>.144 DIA. .128 DIA. .144 DIA. .110 DIA. .070 DIA. HOLE .100 .150 .375 .440 .065 .385 .447</p> <p>4040-0-19-XX-07-XX-10-0 Wire Termination</p>	<p>.157 DIA. .152 DIA. .066 DIA. HOLE .080 DIA. .161 .480 .560 .625 .375</p> <p>0491-0-19-XX-07-XX-04-0 For use in stackable patch cords</p>	<p>.157 DIA. .081 DIA. .156 .580 .800 .505</p> <p>9214-0-15-XX-07-XX-10-0 Solder mount in .083 min. mounting hole</p>
SPECIFICATIONS <p>SHELL MATERIAL: Brass Alloy 360, 1/2 Hard</p> <p>CONTACT MATERIAL: Beryllium Copper Alloy 172, HT</p> <p>DIMENSION IN INCHES TOLERANCES ON: LENGTHS: $\pm .005$ DIAMETERS: $\pm .002$ ANGLES: $\pm 2^\circ$</p>	<p>ORDER CODE: <u>XXXX - 0 - 1X - XX - 07 - XX - XX - 0</u></p> <p>BASIC PART # <u> </u></p> <p>SPECIFY SHELL FINISH: <u> </u></p> <p>01 200μ" TIN/LEAD OVER NICKEL 15 10μ" GOLD OVER NICKEL</p> <p>SPECIFY CONTACT FINISH:</p> <p>01 200μ" TIN/LEAD OVER NICKEL 14 10μ" GOLD OVER NICKEL 27 30μ" GOLD OVER NICKEL</p> <p>SELECT CONTACT #07 CONTACT (DATA ON PAGE 214)</p>		

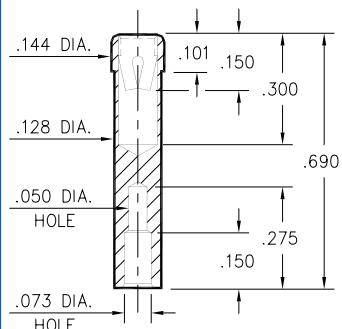


PIN RECEPTACLES
for .065" - .082" diameter pins

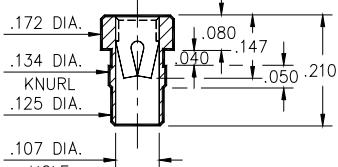
**0395****0395-X-15-XX-07-XX-10-0**

Swage mount in .096 hole

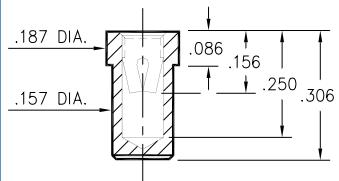
Basic Part Number	Board Thickness	Length V
0395-1	.031	.062
0395-2	.062	.094
0395-3	.094	.125
0395-4	.125	.156
0395-5	.188	.219

8001**8001-0-19-XX-07-XX-10-0**

Wire Termination

8016**8016-0-15-XX-07-XX-10-0**

Press-fit in .131 mounting hole

8837**8837-0-15-XX-14-XX-10-0**

Solder mount in .159 min. mounting hole

SPECIFICATIONS**SHELL MATERIAL:**
Brass Alloy 360, 1/2 Hard**CONTACT MATERIAL:**
Beryllium Copper Alloy 172, HT**DIMENSION IN INCHES****TOLERANCES ON:**
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$ **ORDER CODE: XXXX - X - 15 - XX - XX - XX - 10 - 0****BASIC PART #** _____**SPECIFY SHELL FINISH:** _____**01** 200 μ " TIN/LEAD OVER NICKEL**15** 10 μ " GOLD OVER NICKEL**SPECIFY CONTACT FINISH:****01** 200 μ " TIN/LEAD OVER NICKEL**14** 10 μ " GOLD OVER NICKEL**27** 30 μ " GOLD OVER NICKEL**SELECT CONTACT**

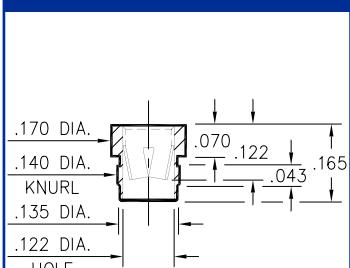
#07 OR #14 CONTACT (DATA ON PAGES 214 & 215)



PIN RECEPTACLES
for .084" - .102" diameter pins



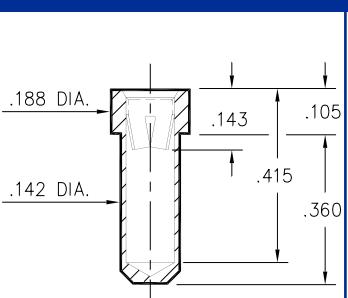
0388



0388-0-15-XX-08-XX-10-0

Press-fit in .138 mounting hole

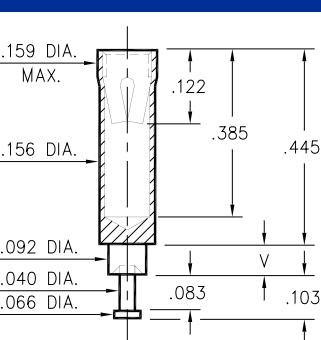
0390



0390-0-15-XX-08-XX-10-0

Solder mount in .144 min. mounting hole

0389

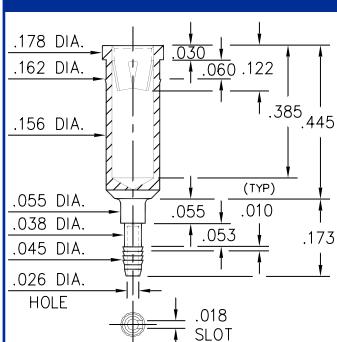


Basic Part Number	Board Thickness	Length V
0389-2	.062	.094
0389-3	.094	.125
0389-4	.125	.156

0389-X-15-XX-08-XX-10-0

Swage mount in .094 hole

8963



8963-0-31-XX-08-XX-04-0

Compliant press-fit in .040±.003 plated hole. For .060→.100 thick board.

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

**DIMENSION IN INCHES
TOLERANCES ON:**
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: 03XX - X - 15 - XX - 08 - XX - XX - 0

BASIC PART # _____

SPECIFY SHELL FINISH: _____

01 200μ" TIN/LEAD OVER NICKEL
15 10μ" GOLD OVER NICKEL

SPECIFY CONTACT FINISH:

01 200μ" TIN/LEAD OVER NICKEL
14 10μ" GOLD OVER NICKEL
27 30μ" GOLD OVER NICKEL

SELECT CONTACT

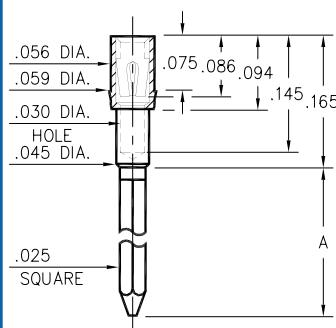
#08 CONTACT (DATA ON PAGE 215)



WRAPOST RECEPTACLES
for .015" - .025" diameter pins



1702/1703

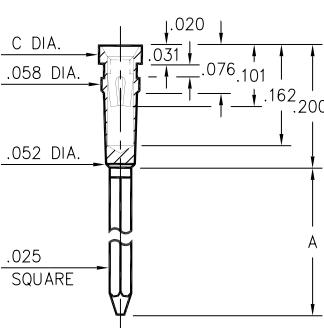


Basic Part Number	# of Wraps	Length A
1702-2	2	.370
1703-3	3	.510

170X-X-17-XX-30-XX-02-0

Press-fit in .057 mounting hole

0038⇒0040/0066⇒0068

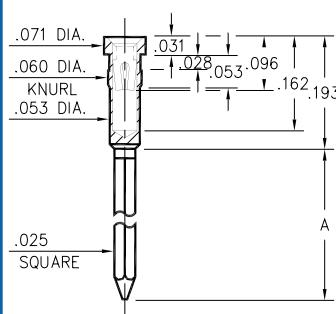


Basic Part #	# of Wraps	Length A	Dia. C
0040-1	1	.260	
0039-2	2	.360	.072
0038-3	3	.500	
0068-1	1	.260	
0067-2	2	.360	.062
0066-3	3	.500	

00XX-X-17-XX-30-XX-02-0

Press-fit in .055 mounting hole

0086/0088/0089

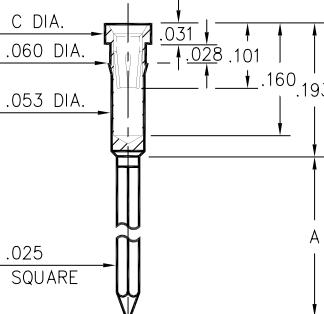


Basic Part Number	# of Wraps	Length A
0089-2	2	.370
0088-3	3	.510
0086-4	4	.630

008X-X-17-XX-3X-XX-02-0

Press-fit in .057 mounting hole

1030⇒1036

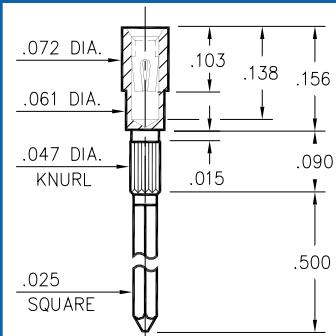


Basic Part #	# of Wraps	Length A	Dia. C
1032-1	1	.260	
1031-2	2	.360	.072
1030-3	3	.510	
1036-1	1	.260	
1035-2	2	.360	.062
1034-3	3	.510	

103X-X-17-XX-3X-XX-02-0

Press-fit in .057 mounting hole

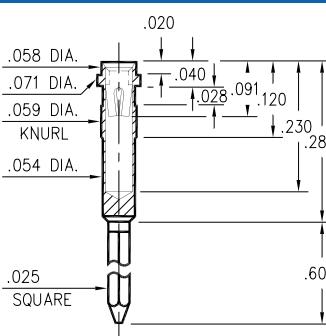
1045



1045-3-17-XX-30-XX-02-0

Press-fit in .043 mounting hole

1040



1040-3-17-XX-30-XX-02-0

Press-fit in .056 mounting hole

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - 17 - XX - 3X - XX - 02 - 0

BASIC PART #

SPECIFY SHELL FINISH:

01 200µ" TIN/LEAD OVER NICKEL

15 10µ" GOLD OVER NICKEL

SPECIFY CONTACT FINISH:
02 200µ" TIN/LEAD OVER NICKEL
14 10µ" GOLD OVER NICKEL
27 30µ" GOLD OVER NICKEL

SELECT CONTACT

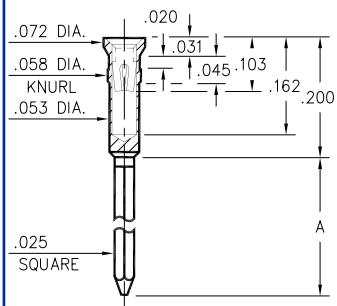
#30 OR #32 CONTACT (DATA ON PAGE 208)



WRAPPOST RECEPTACLES
for .015" - .025" diameter pins



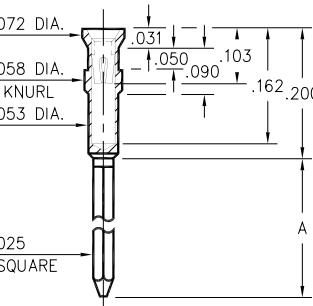
0444



0444-X-17-XX-30-XX-02-0

Press-fit in .056 mounting hole

0445/0446

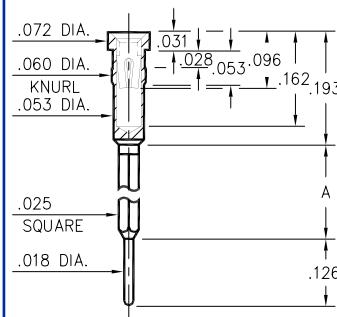


Basic Part Number	# of Wraps	Length A
0446-2	2	.370
0445-3	3	.505

044X-X-17-XX-30-XX-02-0

Press-fit in .056 mounting hole

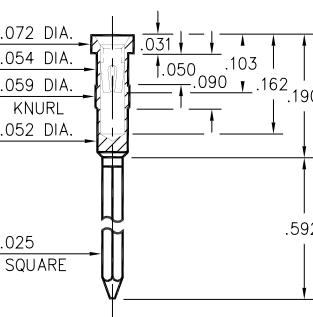
2601⇒ 2603



260X-X-17-XX-30-XX-02-0

Press-fit in .057 mounting hole

1047



1047-3-17-XX-30-XX-02-0

Press-fit in .056 mounting hole

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

**DIMENSION IN INCHES
TOLERANCES ON:**
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - 17 - XX - 30 - XX - 02 - 0

BASIC PART # _____

SPECIFY SHELL FINISH: _____

01 200 μ " TIN/LEAD OVER NICKEL
15 10 μ " GOLD OVER NICKEL

SPECIFY CONTACT FINISH:

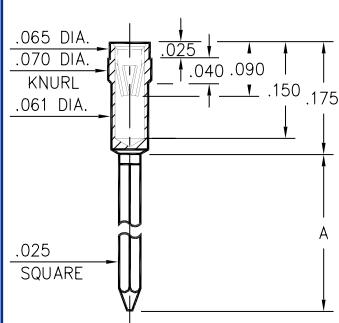
02 200 μ " TIN/LEAD OVER NICKEL
14 10 μ " GOLD OVER NICKEL
27 30 μ " GOLD OVER NICKEL

SELECT CONTACT

#30 CONTACT (DATA ON PAGE 208)



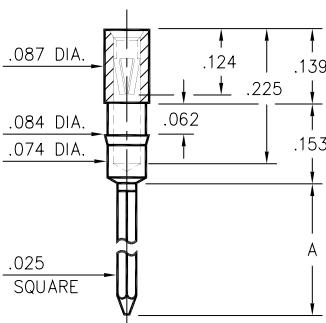
WRAPPOST RECEPTACLES
for .022" - .032" diameter pins (#06 contact)
and .022" - .034" diameter pins (#16 contact)

**2297**

Basic Part Number	# of Wraps	Length A
2297-2	2	.370
2297-3	3	.430

2297-X-17-XX-16-XX-02-0

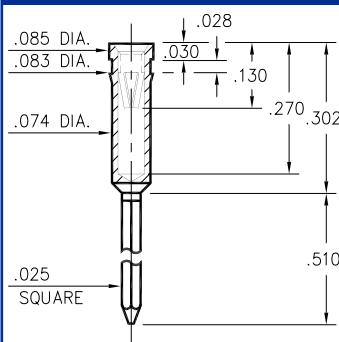
Press-fit in .067 mounting hole

0280

Basic Part Number	# of Wraps	Length A
0280-2	2	.360
0280-3	3	.510

0280-X-17-XX-06-XX-02-0

Press-fit in .081 mounting hole

0281**0281-3-17-XX-06-XX-02-0**

Press-fit in .080 mounting hole

SPECIFICATIONS**SHELL MATERIAL:**
Brass Alloy 360, 1/2 Hard**CONTACT MATERIAL:**
Beryllium Copper Alloy 172, HT**DIMENSION IN INCHES
TOLERANCES ON:**
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$ **ORDER CODE: XXXX - X - 17 - XX - X6 - XX - 02 - 0****BASIC PART #** _____**SPECIFY SHELL FINISH:** _____01 200 μ " TIN/LEAD OVER NICKEL15 10 μ " GOLD OVER NICKEL**SPECIFY CONTACT FINISH:**01 200 μ " TIN/LEAD OVER NICKEL14 10 μ " GOLD OVER NICKEL27 30 μ " GOLD OVER NICKEL**SELECT CONTACT**

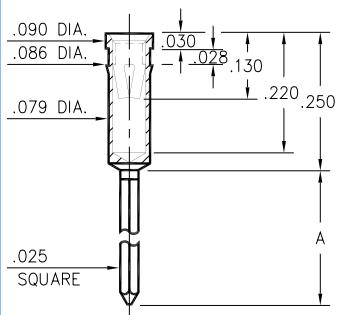
#06 or #16 CONTACTS (DATA ON PAGE 210)



WRAPOST RECEPTACLES
for .032" - .046" diameter pins



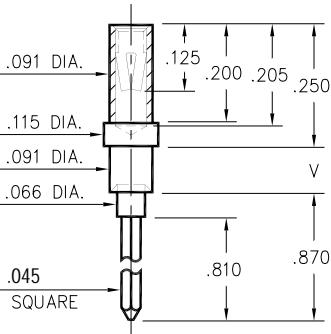
1052/1053



105X-X-17-XX-34-XX-02-0
Press-fit in .083 mounting hole

Basic Part Number	# of Wraps	Length A
1053-2	2	.360
1052-3	3	.515

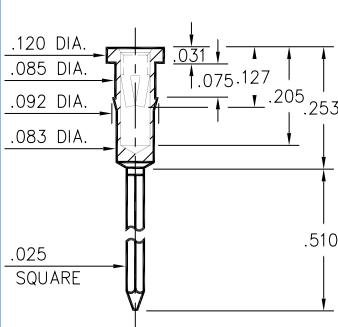
0383



0383-X-17-XX-34-XX-02-0
Swage mount in .094 hole

Basic Part Number	Board Thickness	Length V
0383-1	.062	.094
0383-2	.094	.125
0383-3	.125	.156

0382



0382-3-17-XX-34-XX-02-0
Press-fit in .089 mounting hole

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

ORDER CODE: XXXX - X - 17 - XX - 34 - XX - 02 - 0

BASIC PART # _____

SPECIFY SHELL FINISH: _____

01 200 μ " TIN/LEAD OVER NICKEL

15 10 μ " GOLD OVER NICKEL

SPECIFY CONTACT FINISH:

01 200 μ " TIN/LEAD OVER NICKEL

14 10 μ " GOLD OVER NICKEL

27 30 μ " GOLD OVER NICKEL

SELECT CONTACT

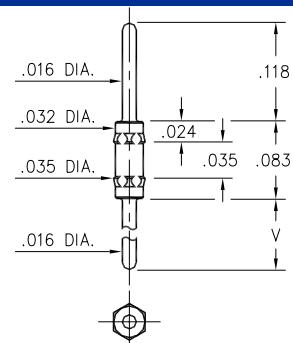
#34 CONTACT (DATA ON PAGE 212)



PRINTED CIRCUIT PINS

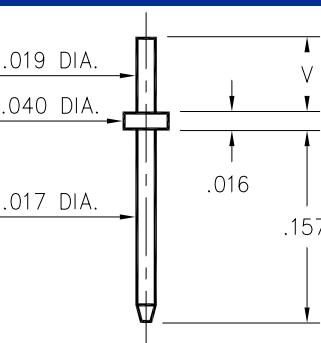


4006



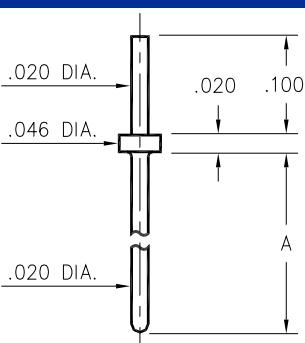
4006-X-00-XX-00-00-03-0
Hex Press-fit in .034 mounting hole

3121



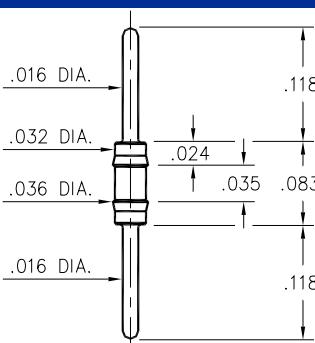
3121-X-00-XX-00-00-08-0
Solder mount in .023 mounting hole
Material is annealed.

3128



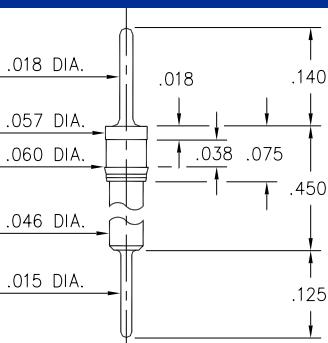
3128-X-00-XX-00-00-08-0
Solder mount in .024 min.
mounting hole

3006



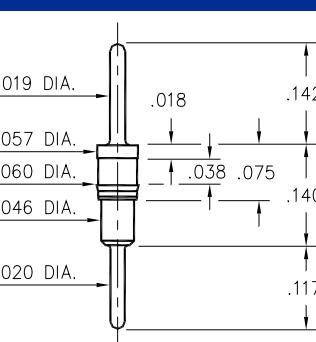
3006-0-00-XX-00-00-03-0
Press-fit in .034 mounting hole

8885



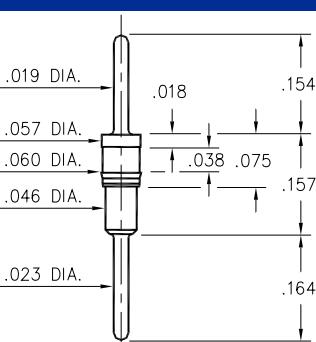
8885-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

6218



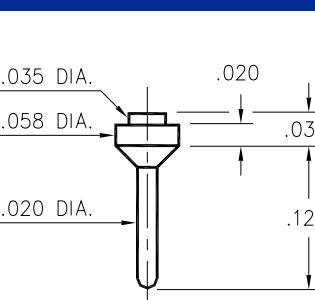
6218-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

5012



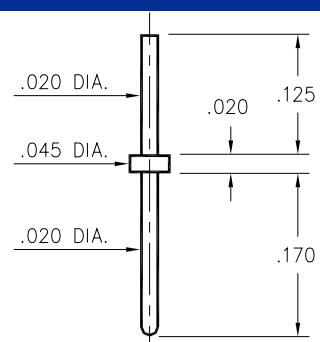
5012-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

0508



0508-0-00-XX-00-00-03-0
Surface Mount

9081



9081-0-00-XX-00-00-08-0
Solder mount in .024 mounting hole

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
(Except where noted)

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 0X - 0

BASIC PART # _____

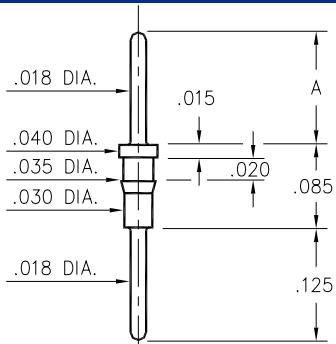
SPECIFY PIN FINISH:
01 200 μ " TIN/LEAD OVER NICKEL
15 10 μ " GOLD OVER NICKEL
21 20 μ " GOLD OVER NICKEL
34 50 μ " GOLD OVER NICKEL



PRINTED CIRCUIT PINS



8685/9036

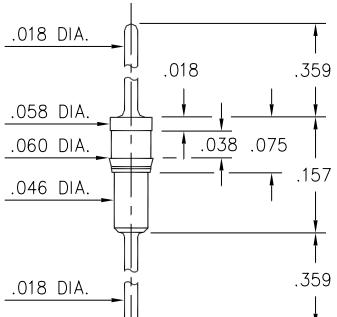


XXXX-0-00-XX-00-00-03-0

Press-fit in .033 mounting hole.
Pin material is Ph. Br. 544 (B2)

9051

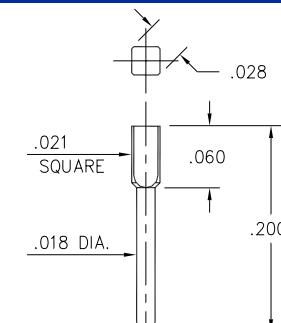
Basic Part Number	Length
8685-0	.125
9036-0	.175



9051-0-00-XX-00-00-03-0

Press-fit in .057 mounting hole

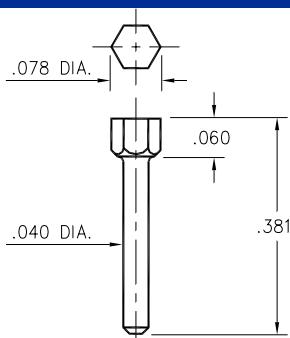
8969



8969-0-05-XX-00-00-03-0

Square press-fit in .023 plated thru hole (use .7 mm drill prior to plating)

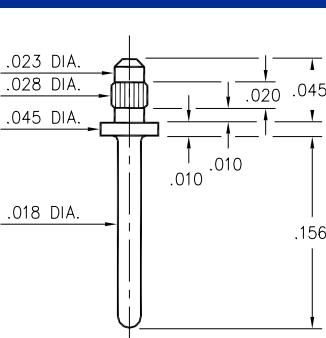
8979



8979-0-00-XX-00-00-03-0

Hex press-fit in .074 plated thru hole.

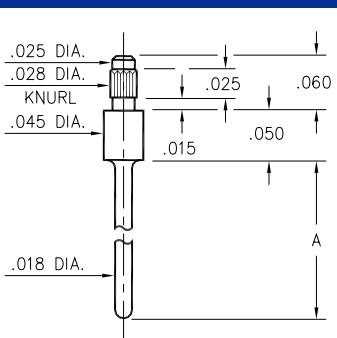
9159



9159-0-00-XX-00-00-03-0

Press-fit in .026 mounting hole

3155/5155



X155-0-00-XX-00-00-03-0

Press-fit in .026 mounting hole
Pin material is Ph. Br. 544 (B2)

Basic Part Number	Length
3155-0	.180
5155-0	.130

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
(Except where noted)

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

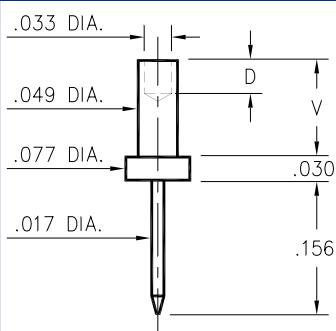
ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - 0X - 0

BASIC PART # _____

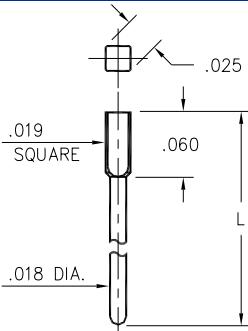
SPECIFY PIN FINISH:
01 200 μ " TIN/LEAD OVER NICKEL
15 10 μ " GOLD OVER NICKEL
21 20 μ " GOLD OVER NICKEL
34 50 μ " GOLD OVER NICKEL



PRINTED CIRCUIT PINS

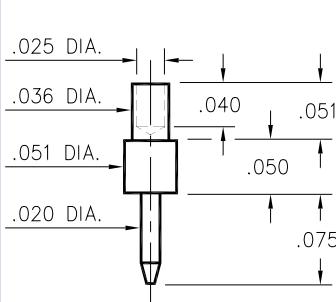

3116


3116-X-00-XX-00-00-08-0
Swage mount in .052 hole

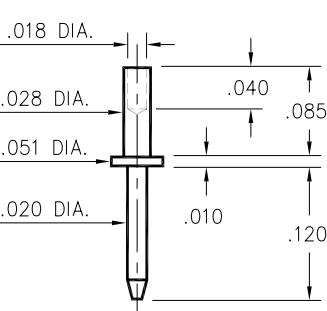
5435


Basic Part Number	Length L
5435-0	.303
5435-1	.200

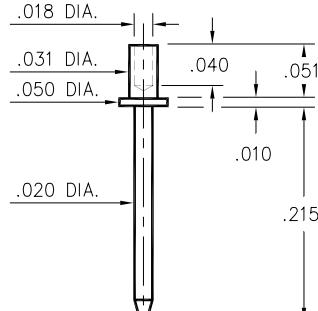
5435-X-05-XX-00-00-03-0
Square press-fit in .022 plated thru hole

3135


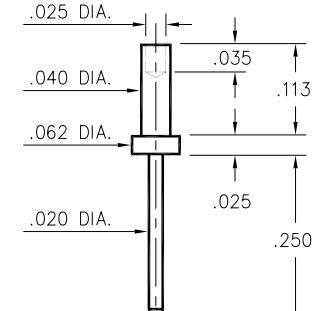
3135-1-00-XX-00-00-08-0
Swage mount in .040 hole.
For .031 thick board.

3210


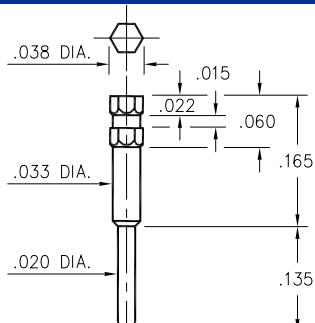
3210-2-00-XX-00-00-08-0
Swage mount in .031 hole.
For .062 thick board.

3129


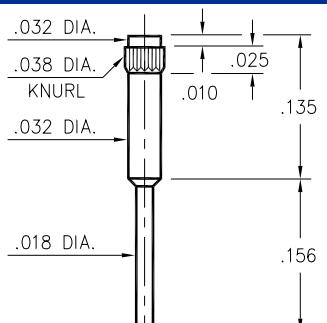
3129-1-00-XX-00-00-08-0
Swage mount in .035 hole.
For .031 thick board.

3147


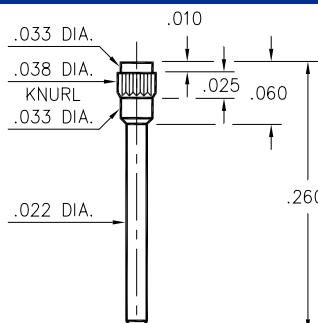
3147-3-00-XX-00-00-08-0
Swage mount in .043 hole.
For .094 thick board.

4366


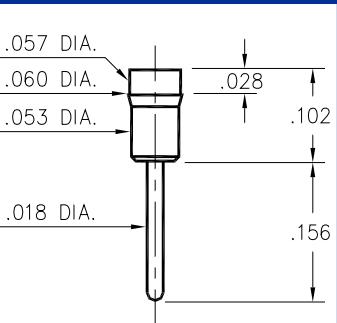
4366-0-00-XX-00-00-03-0
Hex press-fit in .034 plated thru hole

1267


1267-0-00-XX-00-00-03-0
Press-fit in .035 mounting hole

7827


7827-0-00-XX-00-00-03-0
Press-fit in .035 mounting hole

1130


1130-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole
Pin material is Ph Br. 544 (B2)

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
(Except Swage pins which are annealed)

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

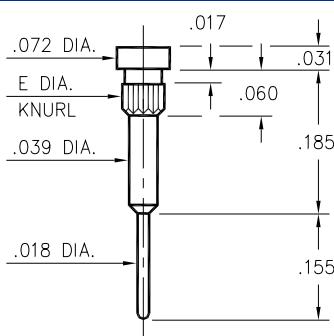
ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - 0X - 0

BASIC PART # _____

SPECIFY PIN FINISH:
01 200 μ " TIN/LEAD OVER NICKEL
15 10 μ " GOLD OVER NICKEL
21 20 μ " GOLD OVER NICKEL
34 50 μ " GOLD OVER NICKEL



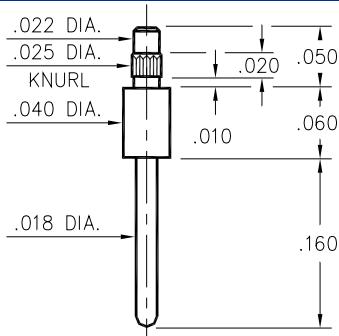
PRINTED CIRCUIT PINS


1067


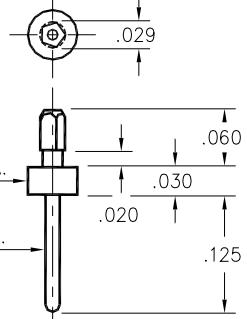
Basic Part Number	Knurl Dia. E	Mounting Hole
1067-1	.058	.055
1067-2	.045	.042

1067-X-00-XX-00-00-03-0

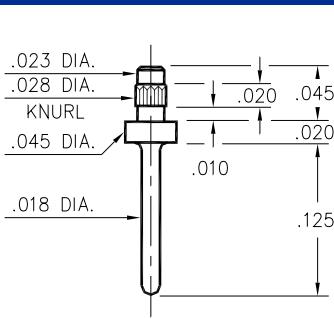
Press-fit in .042/.055 mounting hole

3158

3158-0-00-XX-00-00-03-0

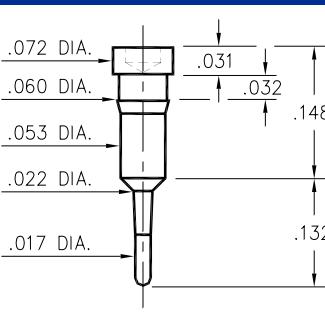
Press-fit in .023 mounting hole

9000

9000-0-00-XX-00-00-03-0

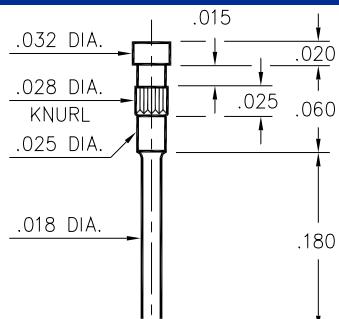
Pentagonal press-fit in .025 plated thru hole

3157

3157-0-00-XX-00-00-03-0

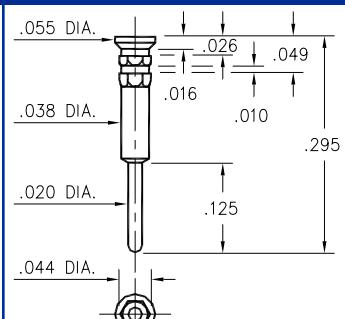
Press-fit in .026 mounting hole

0915

0915-0-00-XX-00-00-03-0

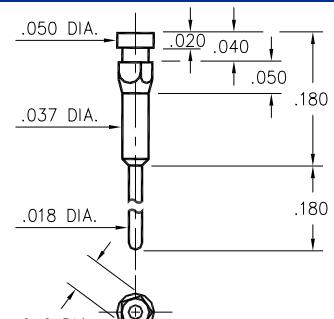
Press-fit in .057 mounting hole

3154

3154-0-00-XX-00-00-03-0

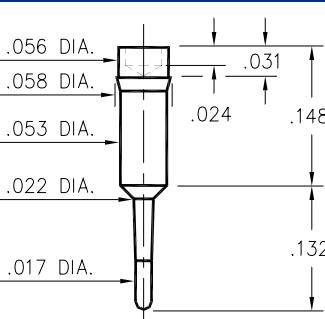
 Press-fit in .026 mounting hole
Pin material is Ph Br 544 (B2)

0542

0542-0-00-XX-00-00-03-0

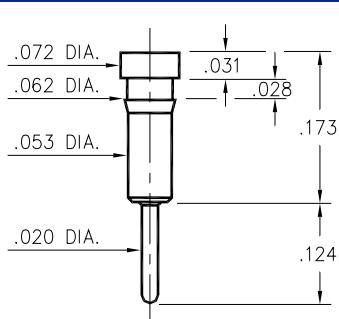
Hex press-fit in .039 plated thru hole

0522

0522-0-00-XX-00-00-03-0

Pentagonal press-fit in .042 plated thru hole

0952

0952-0-00-XX-00-00-03-0

Press-fit in .056 mounting hole

0257

0257-0-00-XX-00-00-03-0

Press-fit in .059 mounting hole

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
(Except where noted)

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$
ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 03 - 0
BASIC PART # _____

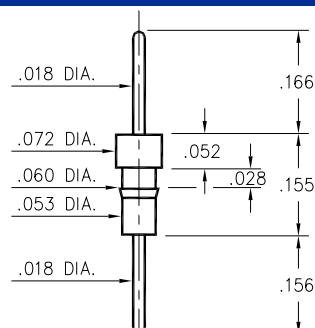
SPECIFY PIN FINISH:
01 200 μ " TIN/LEAD OVER NICKEL
15 10 μ " GOLD OVER NICKEL
21 20 μ " GOLD OVER NICKEL
34 50 μ " GOLD OVER NICKEL



PRINTED CIRCUIT PINS



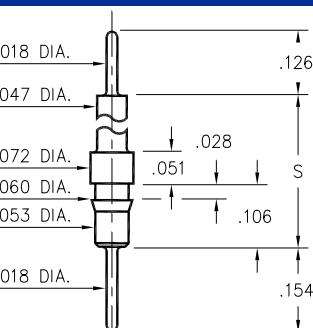
0504/0505



Basic Part Number	Pin Material
0504-0	Ph Br. 544
0505-0	Brass 360

050X-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

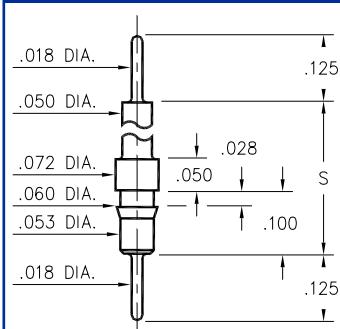
5510/5511



Basic Part Number	Standoff Height S
5510-0	.331
5511-0	.606

551X-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

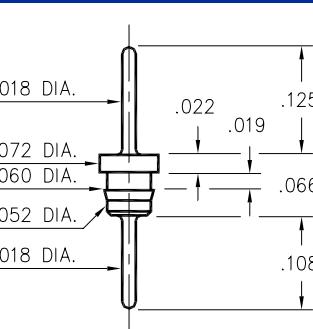
4259



Basic Part Number	Standoff Height S
4259-1	.210
4259-2	.335
4259-3	.585
4259-4	.835

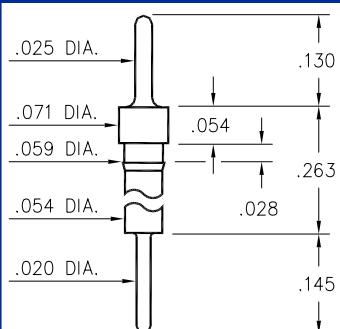
4259-X-00-XX-00-00-03-0
Press-fit in .057 mounting hole

3516



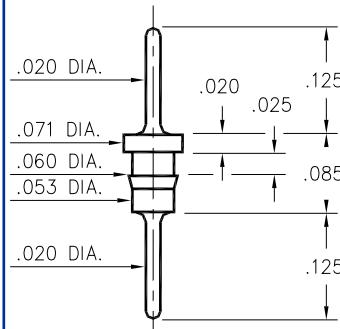
3516-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

8859



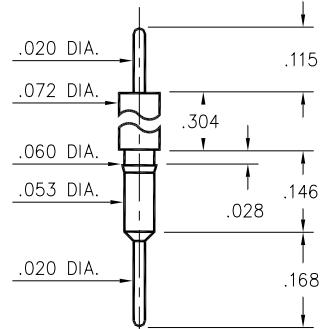
8859-0-00-XX-00-00-03-0
Press-fit in .056 mounting hole

6585



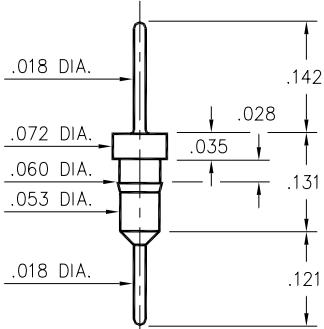
6585-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole
Pin material is Ph Br 544 (B2)

3403



3403-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

3404



3404-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
(Except where noted)

**DIMENSION IN INCHES
TOLERANCES ON:**
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

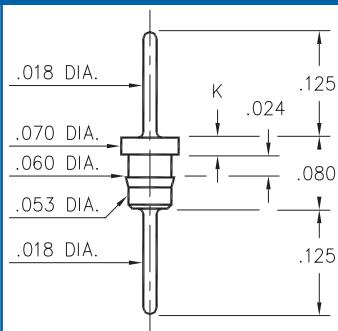
ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 03 - 0

BASIC PART # _____

SPECIFY PIN FINISH:
01 200 μ " TIN/LEAD OVER NICKEL
15 10 μ " GOLD OVER NICKEL
21 20 μ " GOLD OVER NICKEL
34 50 μ " GOLD OVER NICKEL

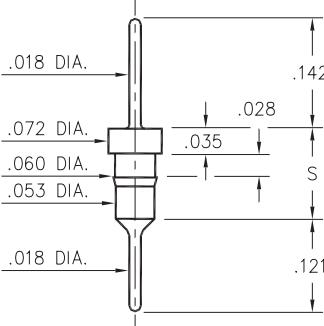


PRINTED CIRCUIT PINS


1752/6458


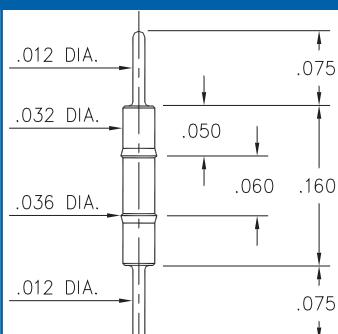
XXXX-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

Basic Part Number	Length K
1752-0	.020
6458-0	.035

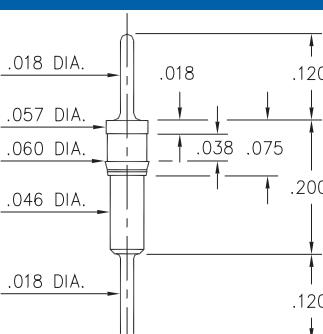
3413/8404


X4XX-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

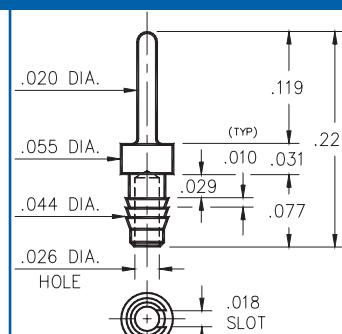
Basic Part Number	Length S
3413-0	.118
8404-0	.131

9075


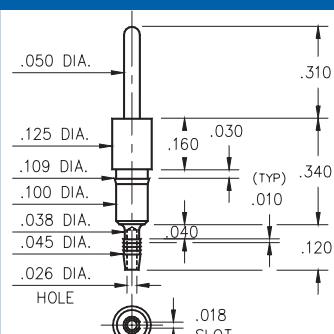
9075-0-00-XX-00-00-03-0
Press-fit in .034 mounting hole

9218


9218-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

2617


2617-0-01-XX-00-00-03-0
Compliant press-fit in .040 ±.003 hole. For .060 → .100 thick board

8995


8995-0-01-XX-00-00-03-0
Compliant press-fit in .040 ±.003 hole. For .060 → .100 thick board

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
(Except where noted)

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - XX - XX - 00 - 00 - 0X - 0

BASIC PART # _____

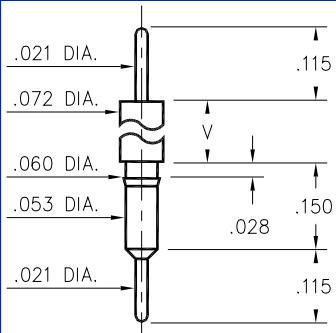
SPECIFY PIN FINISH:
01 200µ" TIN/LEAD OVER NICKEL
15 10µ" GOLD OVER NICKEL
21 20µ" GOLD OVER NICKEL
34 50µ" GOLD OVER NICKEL



PRINTED CIRCUIT PINS



3406/3407

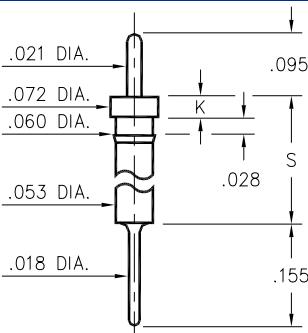


340X-0-00-XX-00-00-03-0

Press-fit in .057 mounting hole

Basic Part Number	Shoulder Height V
3406-0	.350
3407-0	.600

0315

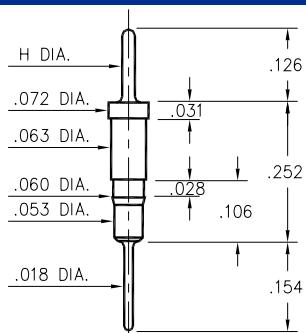


0315-X-00-XX-00-00-03-0

Press-fit in .057 mounting hole
Pin material is Ph Br 544 (B2)

Basic Part Number	Head Height K	Stand-off Height S
0315-0	.030	.190
0315-1	.040	.430

5503/5509

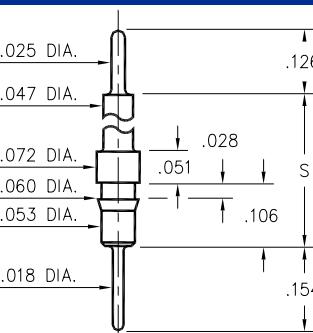


550X-0-00-XX-00-00-03-0

Press-fit in .057 mounting hole

Basic Part Number	Pin Diameter H
5503-0	.025
5509-0	.018

5504/5505

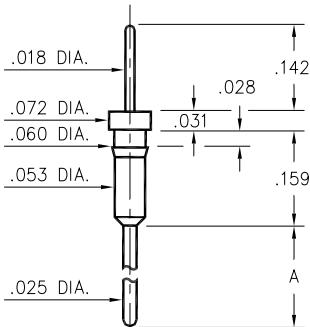


550X-0-00-XX-00-00-03-0

Press-fit in .057 mounting hole

Basic Part Number	Standoff Height S
5504-0	.331
5505-0	.606

3409

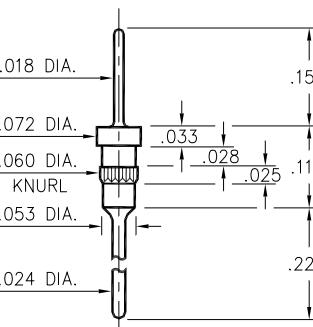


3409-X-00-XX-00-00-03-0

Press-fit in .057 mounting hole

Basic Part Number	Pin Length A
3409-1	.210
3409-2	.420

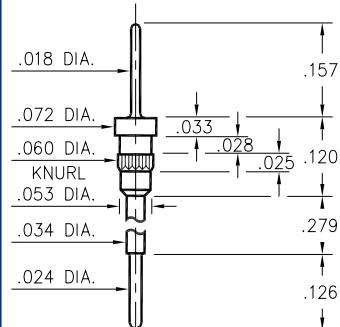
5011



5011-0-00-XX-00-00-03-0

Press-fit in .057 mounting hole

5113



5113-0-00-XX-00-00-03-0

Press-fit in .057 mounting hole

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
(Except where noted)

DIMENSION IN INCHES

TOLERANCES ON:

LENGTHS: $\pm .005$

DIAMETERS: $\pm .002$

ANGLES: $\pm 2^\circ$

ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 03 - 0

BASIC PART # _____

SPECIFY PIN FINISH:

01 200 μ " TIN/LEAD OVER NICKEL

15 10 μ " GOLD OVER NICKEL

21 20 μ " GOLD OVER NICKEL

34 50 μ " GOLD OVER NICKEL

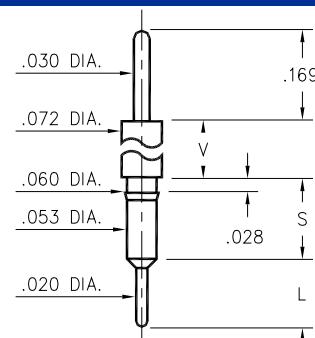


PRINTED CIRCUIT PINS



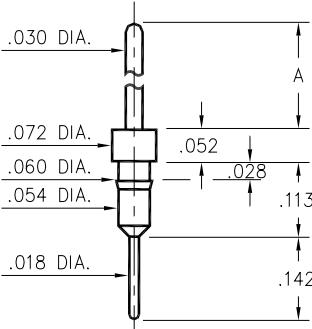
3400 ⇒ 3402/3405/3410

3411



34XX-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

Basic Part Number	Shoulder Height V	Length S	Length L
3402-0	.052	.138	.115
3401-0	.100	.136	.115
3405-0	.169	.146	.115
3400-0	.481	.145	.115
3410-0	.934	.136	.124



Basic Part Number	Pin Length A
3411-0	.417
3411-1	.217

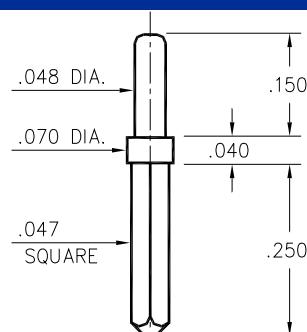
3411-X-00-XX-00-00-03-0
Press-fit in .057 mounting hole

0600

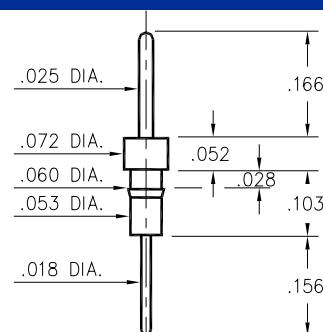
0290

7007

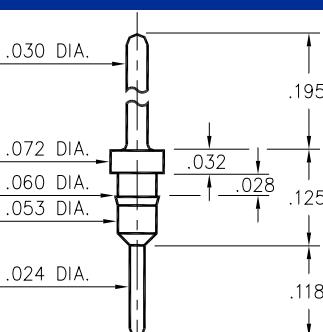
5016



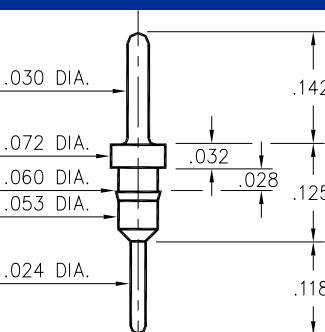
0600-0-05-XX-00-00-01-0
Solder mount in .052 mounting hole



0290-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole



7007-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole



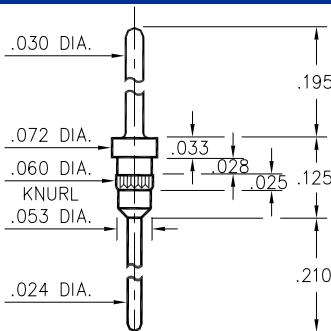
5016-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

5005

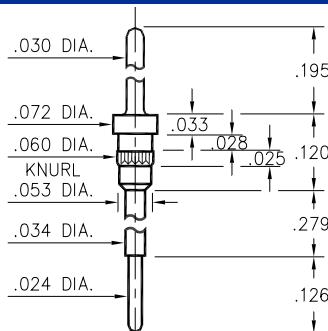
5107

5604

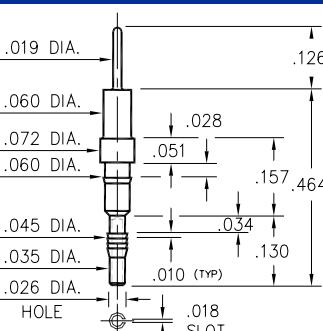
8919



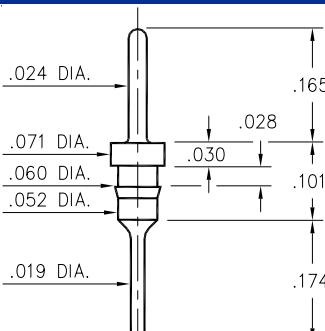
5005-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole



5107-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole



5604-0-01-XX-00-00-03-0
Compliant press-fit in .040±.003 plated hole. For .060→.100 thick board.



8919-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
(Except where noted)

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - 0X - 0

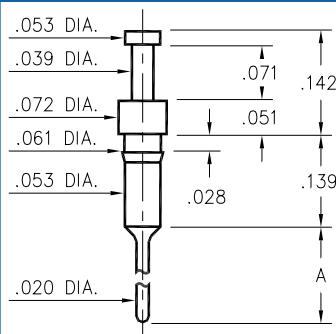
BASIC PART # _____

SPECIFY PIN FINISH:

- 01 200µ" TIN/LEAD OVER NICKEL
- 15 10µ" GOLD OVER NICKEL
- 21 20µ" GOLD OVER NICKEL
- 34 50µ" GOLD OVER NICKEL

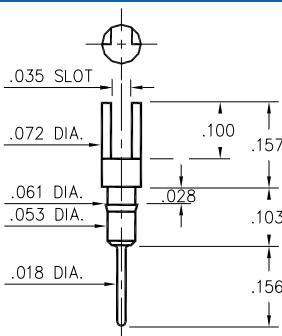


PRINTED CIRCUIT PINS

**3408**

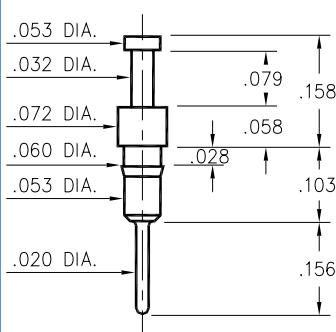
3408-X-00-XX-00-00-03-0
Press-fit in .057 mounting hole

Basic Part Number	Pin Length A
3408-1	.121
3408-2	.181

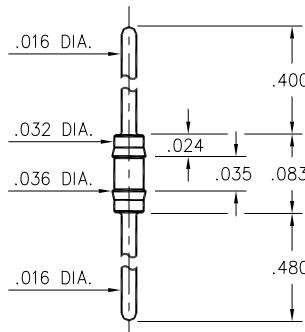
0270/0282

02XX-0-01-XX-00-00-03-0
Press-fit in .057 mounting hole

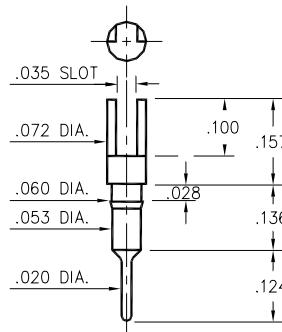
Basic Part Number	Pin Material
0270-0	Ph Br 544 (B2)
0282-0	Brass 360

0700

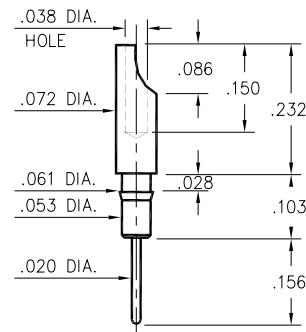
0700-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

8006

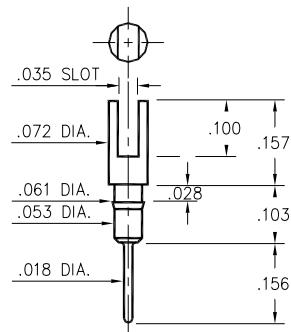
8006-0-00-XX-00-00-03-0
Press-fit in .034 mounting hole

0265

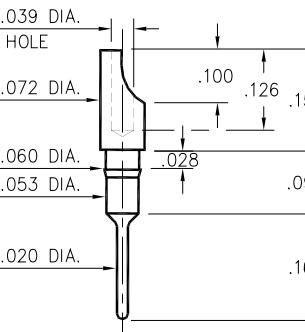
0265-0-01-XX-00-00-03-0
Press-fit in .057 mounting hole

0275

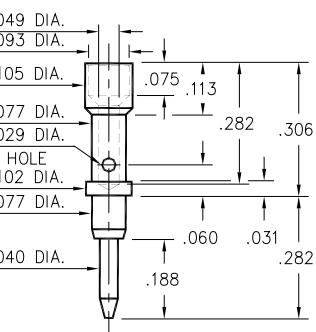
0275-0-01-XX-00-00-03-0
Press-fit in .057 mounting hole
Pin material is Ph. Br. 544 (B2)

0272

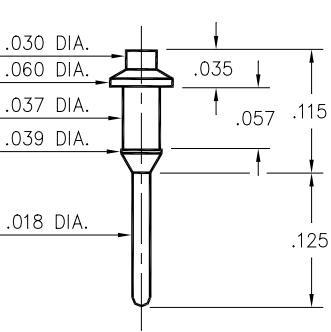
0272-0-01-XX-00-00-03-0
Press-fit in .057 mounting hole

8000

8000-0-01-XX-00-00-03-0
Press-fit in .057 mounting hole

3603

3603-0-07-XX-00-00-08-0
Annealed #20 Crimp barrel

9976

9976-0-00-XX-00-00-03-0
Press-fit in .038 mounting hole

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
(Except where noted)

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - 0X - 0

BASIC PART # _____

SPECIFY PIN FINISH:

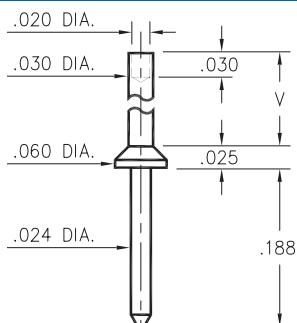
- 01 200 μ " TIN/LEAD OVER NICKEL
- 15 10 μ " GOLD OVER NICKEL
- 21 20 μ " GOLD OVER NICKEL
- 34 50 μ " GOLD OVER NICKEL



PRINTED CIRCUIT PINS



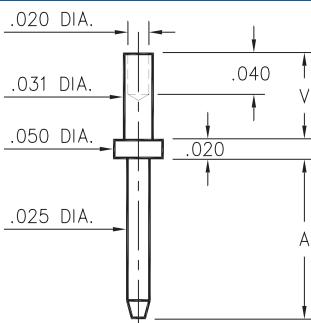
3117



3117-X-00-XX-00-00-08-0
Swage mount in .035 hole

Basic Part Number	Board Thickness	Length V
3117-1	.031	.047
3117-2	.062	.078
3117-3	.094	.110
3117-4	.125	.141

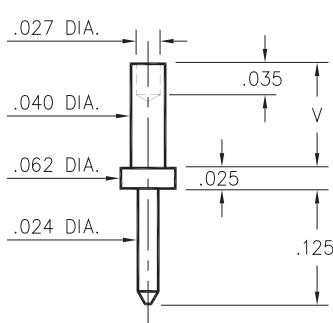
3114/3115



311X-X-00-XX-00-00-08-0
Swage mount in .035 mounting hole

Basic Part Number	Board Thickness	Length A	Length V
3114-1	.031	.150	.051
3114-2	.062	.150	.082
3115-1	.031	.300	.051
3115-2	.062	.300	.082

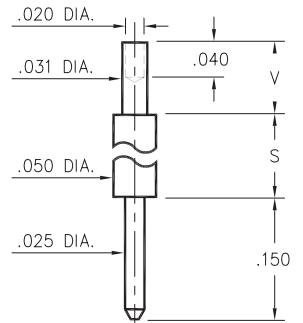
3112



3112-X-00-XX-00-00-08-0
Swage mount in .043 hole

Basic Part Number	Board Thickness	Length V
3112-1	.031	.051
3112-2	.062	.082
3112-3	.094	.113

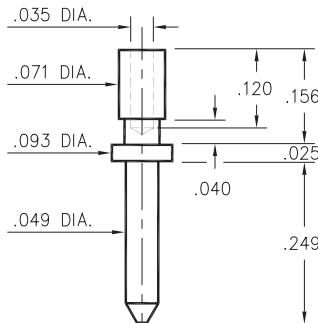
3118/3119



311X-X-00-XX-00-00-08-0
Swage mount in .035 hole

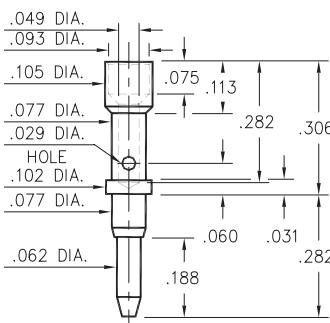
Basic Part Number	Board Thickness	Length S	Length V
3118-1	.031	.170	.051
3118-2	.062	.170	.082
3119-1	.031	.420	.051
3119-2	.062	.420	.082

3139



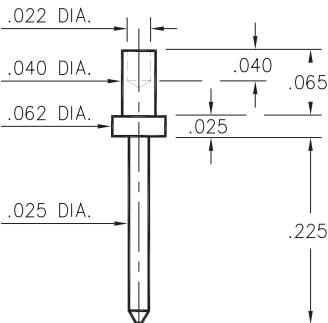
3139-0-00-XX-00-00-08-0
Wire Termination

3602



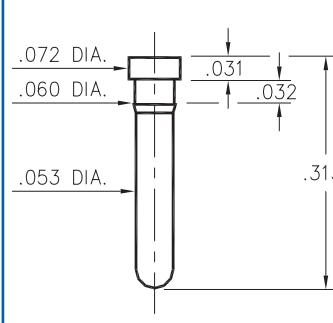
3602-0-07-XX-00-00-08-0
Annealed
#20 Crimp barrel

3131



3131-1-00-XX-00-00-08-0
Swage mount in .043 hole

0912



0912-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
(Except Swage pins which
are annealed)

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

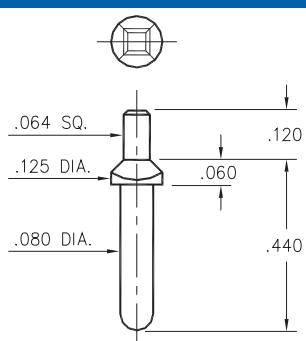
ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - 0X - 0

BASIC PART # _____

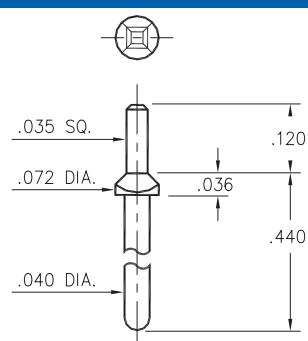
SPECIFY PIN FINISH:
01 200 μ " TIN/LEAD OVER NICKEL
15 10 μ " GOLD OVER NICKEL
21 20 μ " GOLD OVER NICKEL
34 50 μ " GOLD OVER NICKEL



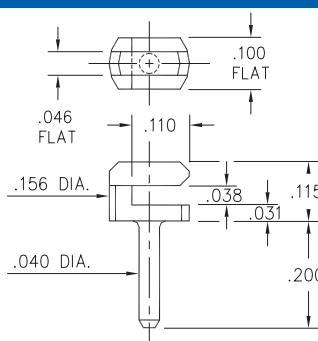
PRINTED CIRCUIT PINS

**8952****8953****7310****8816**

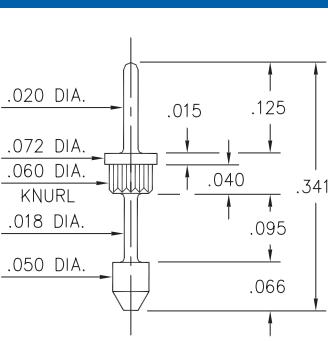
8952-0-05-XX-00-00-03-0
Square press-fit in .087
plated thru hole



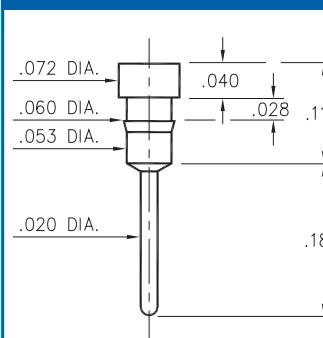
8953-0-05-XX-00-00-03-0
Square press-fit in .047
plated thru hole



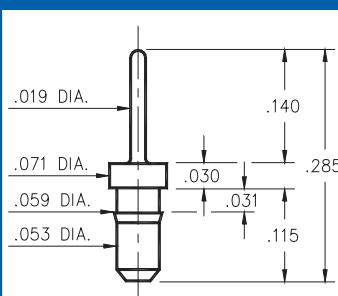
7310-0-01-XX-00-00-08-0
Board edge press-fit



8816-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

8940**8876**

8940-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole



8876-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
(Except where noted)

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

ORDER CODE: XXXX - X - XX - XX - 00 - 00 - 0X - 0

BASIC PART # _____

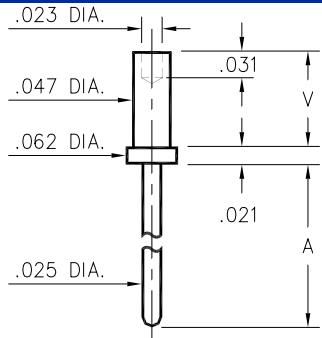
SPECIFY PIN FINISH:
01 200 μ " TIN/LEAD OVER NICKEL
15 10 μ " GOLD OVER NICKEL
21 20 μ " GOLD OVER NICKEL
34 50 μ " GOLD OVER NICKEL



PRINTED CIRCUIT PINS



3130/3134/3151

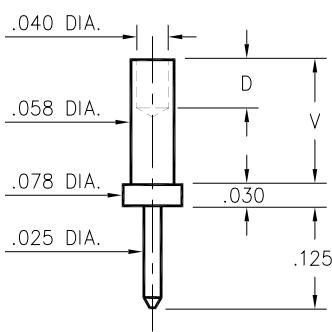


31XX-X-00-XX-00-00-08-0

Swage mount in .052 hole

Basic Part Number	Board Thickness	Length A	Length V
3134-1	.031	.079	.051
3134-2	.062	.079	.082
3134-3	.094	.079	.113
3134-4	.125	.079	.145
3130-1	.031	.179	.051
3130-2	.062	.179	.082
3130-3	.094	.179	.113
3130-4	.125	.179	.145
3151-1	.031	.479	.051
3151-2	.062	.479	.082
3151-3	.094	.479	.113
3151-4	.125	.479	.145

3113

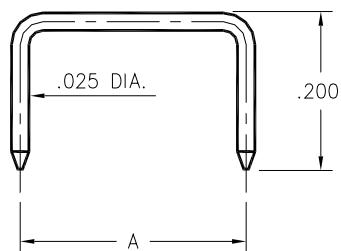


Basic Part Number	Board Thickness	Length V	Depth D
3113-1	.031	.062	.040
3113-2	.062	.094	.062
3113-3	.094	.125	.062
3113-4	.125	.156	.062

3113-X-00-XX-00-00-08-0

Swage mount in .062 hole

3360

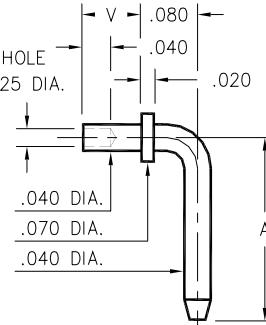


Basic Part Number	Pin Centers A
3360-1	.200
3360-2	.250
3360-3	.300
3360-4	.400
3360-5	.500

3360-X-14-XX-00-00-08-0

Shorting Jumper

3301⇒3304



Basic Part Number	Pin Centers A
3301-X	.257
3302-X	.357
3303-X	.375
3304-X	.562

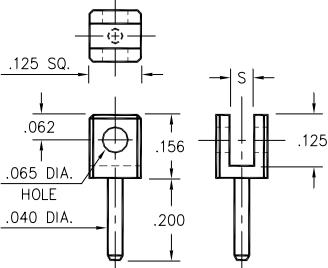
- X -	Board Thickness	Length V
1	.031	.051
2	.062	.082
3	.094	.113

330X-X-14-XX-00-00-08-0

Specify board thickness

Swage mount in .043 hole

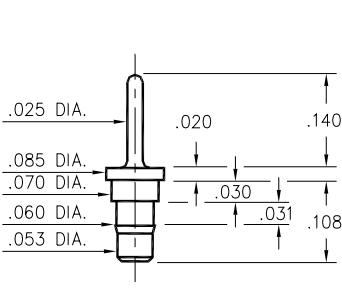
3620



3620-X-32-XX-00-00-08-0

Board edge rivet mount

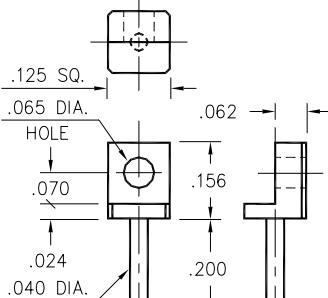
0940



0940-0-00-XX-00-00-03-0

Press-fit in .057 mounting hole

3621



3621-0-32-XX-00-00-08-0

Board edge rivet mount

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
(Except Swage pins which are annealed)

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - XX - XX - 00 - 00 - 0X - 0

BASIC PART # _____

SPECIFY PIN FINISH:

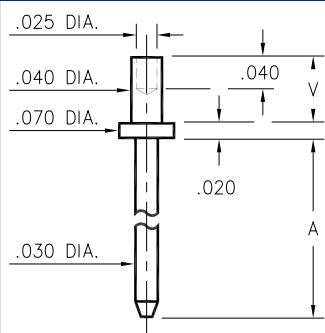
- 01 200µ" TIN/LEAD OVER NICKEL
- 15 10µ" GOLD OVER NICKEL
- 21 20µ" GOLD OVER NICKEL
- 34 50µ" GOLD OVER NICKEL



PRINTED CIRCUIT PINS



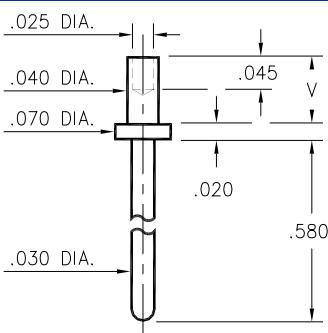
3110/3111



311X-X-00-XX-00-00-08-0
Swage mount in .043 hole

Basic Part Number	Board Thickness	Length A	Length V
3110-1	.031	.150	.051
3110-2	.062	.150	.082
3110-3	.094	.150	.113
3111-1	.031	.300	.051
3111-2	.062	.300	.082
3111-3	.094	.300	.113

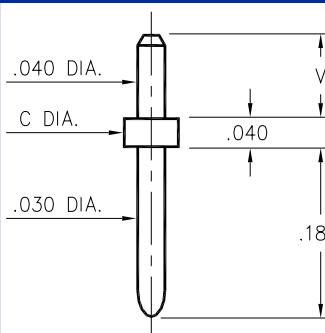
3150



Basic Part Number	Board Thickness	Length V
3150-1	.031	.051
3150-2	.062	.082

3150-X-00-XX-00-00-08-0
Swage mount in .043 mounting hole

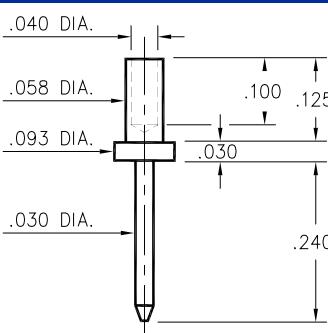
3136/3137



313X-X-00-XX-00-00-08-0
Solder mount in .043 mounting hole

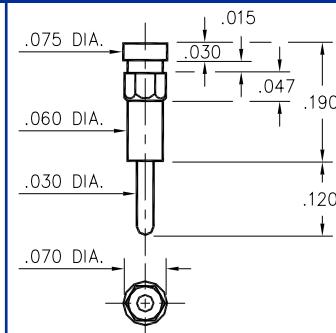
Basic Part Number	Flange Dia. C	Board Thickness	Length V
3136-1	.078	.062	.082
3136-2		.094	.110
3136-3		.125	.145
3137-1		.062	.082
3137-2		.094	.110
3137-3		.125	.145
3137-4		.156	.185

3148



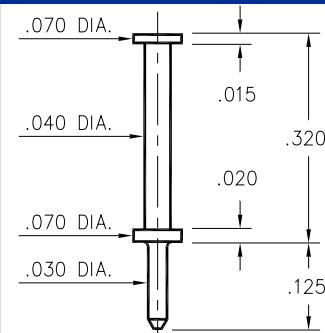
3148-3-00-XX-00-00-08-0
Swage mount in .062 hole for .094 thick board

8815



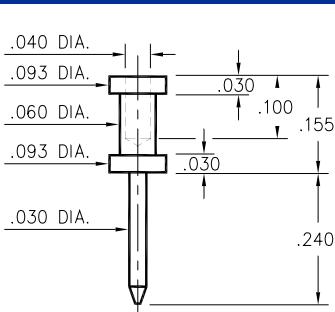
8815-0-00-XX-00-00-03-0
Hex press-fit in .066 plated thru hole

6821



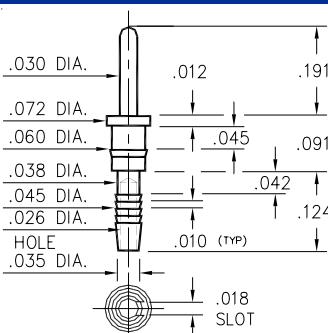
6821-0-00-XX-00-00-08-0
Wire Termination

3132



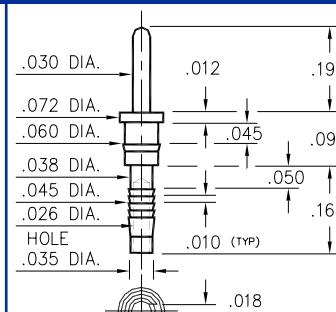
3132-0-00-XX-00-00-08-0
Wire Termination
Material is annealed

5601



5601-0-01-XX-00-00-03-0
Compliant press-fit in .040±.003 plated hole. For .060→.100 thick board.

5602



5602-0-01-XX-00-00-03-0
Compliant press-fit in .040±.003 plated hole. For .090→.130 thick board.

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
(Except Swage pins which are annealed)

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - 0X - 0

BASIC PART # _____

SPECIFY PIN FINISH:
01 200µ" TIN/LEAD OVER NICKEL
15 10µ" GOLD OVER NICKEL
21 20µ" GOLD OVER NICKEL
34 50µ" GOLD OVER NICKEL

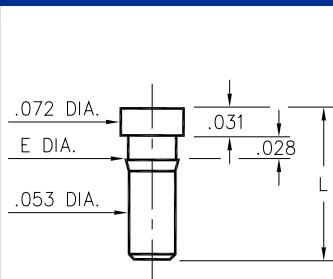


PRINTED CIRCUIT PINS



0259/0286

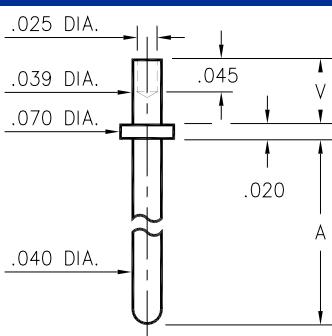
3122 ⇒ 3153



Basic Part Number	Length L	Barb Dia. E	Mounting Hole
0259-0	.173	.062	.059
0286-0	.115	.060	.057

02XX-0-00-XX-00-00-03-0

Press-fit in .057/.059 mounting hole



Basic Part Number	Pin Length A
3153-X	.180
3141-X	.230
3122-X	.280
3149-X	.380
3123-X	.580
3140-X	.780
3124-X	.880

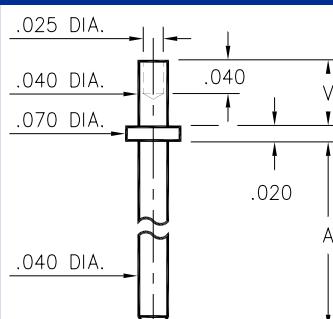
- X -	Board Thickness	Length V
1	.031	.051
2	.062	.082

31XX-X-00-XX-00-00-08-0

Swage mount in .043 hole

3101 ⇒ 3106

3221 ⇒ 3223

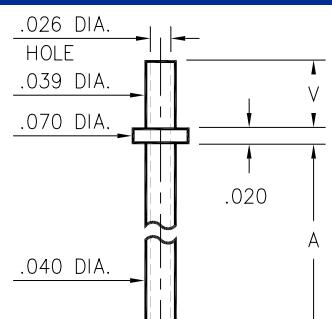


Basic Part Number	Pin Length A
3101-X	.150
3102-X	.188
3103-X	.300
3104-X	.500
3105-X	.750
3106-X	1.000

- X -	Board Thickness	Length V
1	.031	.051
2	.062	.082
3	.094	.113

310X-X-00-XX-00-00-08-0

Swage mount in .043 hole



Basic Part Number	Pin Length A
3221-X	.100
3222-X	.150
3223-X	.300

- X -	Board Thickness	Length V
1	.031	.051
2	.062	.082
3	.094	.113

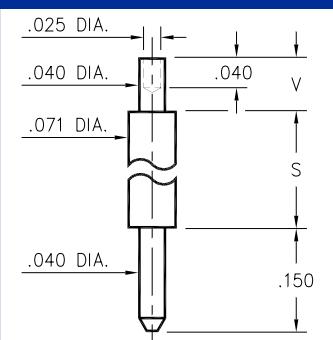
322X-X-00-XX-00-00-08-0

Swage mount in .043 hole

3125/3126

0995

4526

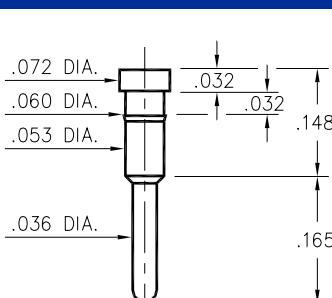


Basic Part Number	Pin Length S
3125-X	.170
3126-X	.420

- X -	Board Thickness	Length V
1	.031	.051
2	.062	.082
3	.094	.113

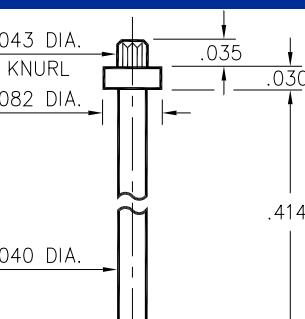
312X-X-00-XX-00-00-08-0

Swage mount in .043 hole



0995-0-00-XX-00-00-03-0

Press-fit in .057 mounting hole



4526-0-00-XX-00-00-03-0

Press-fit in .040 mounting hole

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
(Except Swage pins which are annealed)

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 0X - 0

BASIC PART # _____

SPECIFY PIN FINISH:

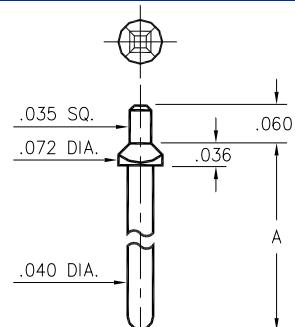
- 01 200µ" TIN/LEAD OVER NICKEL
- 15 10µ" GOLD OVER NICKEL
- 21 20µ" GOLD OVER NICKEL
- 34 50µ" GOLD OVER NICKEL



PRINTED CIRCUIT PINS



8600/8954/8955

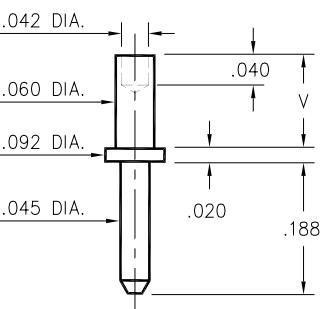


8XXX-X-05-XX-00-00-03-0

Square press-fit in .043 plated thru hole

Basic Part Number	Pin Length A
8600-0	.400
8600-1	.850
8600-2	1.200
8954-0	.136
8955-0	.655

3159

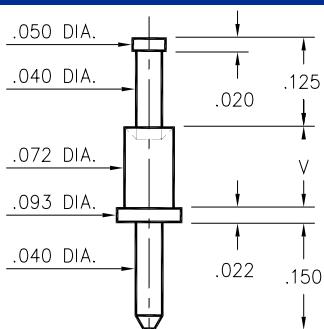


Basic Part Number	Board Thickness	Length V
3159-1	.031	.062
3159-2	.062	.094
3159-3	.094	.125
3159-4	.125	.156

3159-X-00-XX-00-00-08-0

Swage mount in .064 hole

3156

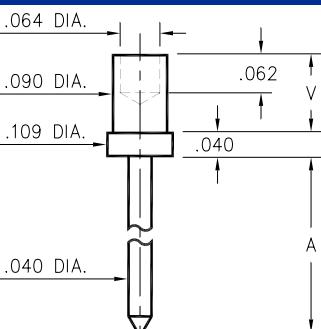


3156-X-00-XX-00-00-08-0

Swage mount in .076 hole

Basic Part Number	Board Thickness	Length V
3156-1	.031	.051
3156-2	.062	.082
3156-3	.094	.113
3156-4	.125	.145

3230

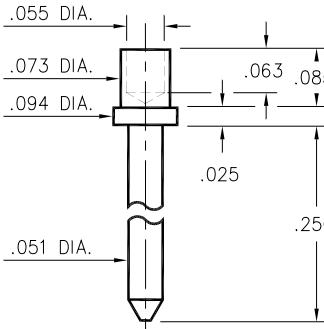


Basic Part Number	Board Thickness	Length A	Length V
3230-1	.031	.202	.065
3230-2	.062	.228	.095
3230-3	.094	.258	.125
3230-4	.125	.288	.155

3230-X-00-XX-00-00-08-0

Swage mount in .094 hole

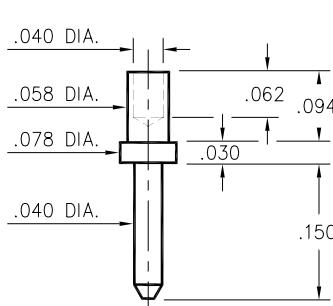
3146



3146-2-00-XX-00-00-08-0

Swage mount in .076 hole.
For .062 thick board

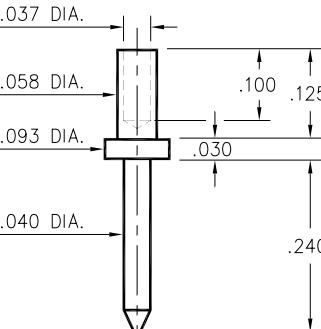
3142



3142-2-00-XX-00-00-08-0

Swage mount in .062 hole.
For .062 thick board

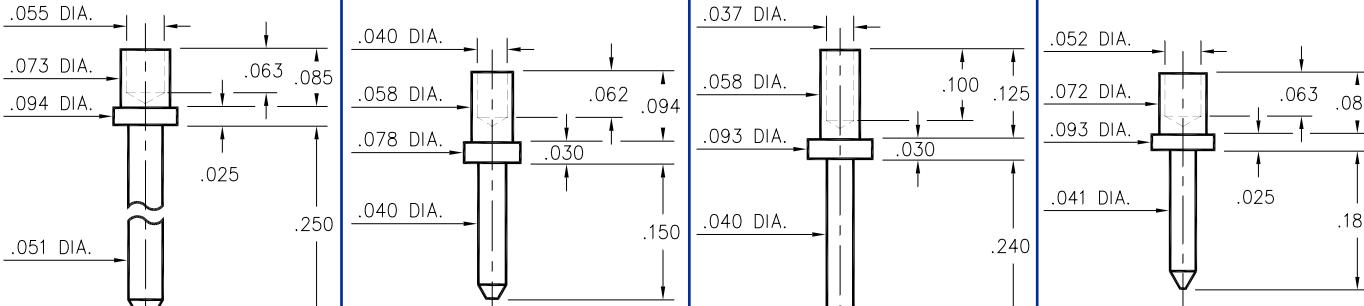
3232



3232-3-00-XX-00-00-08-0

Swage mount in .062 hole.
For .094 thick board

3145



3145-2-00-XX-00-00-08-0

Swage mount in .076 hole.
For .062 thick board

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
(Except Swage pins which are annealed)

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - 0X - 0

BASIC PART # _____

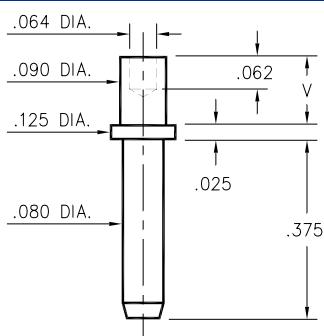
SPECIFY PIN FINISH:
01 200 μ " TIN/LEAD OVER NICKEL
15 10 μ " GOLD OVER NICKEL
21 20 μ " GOLD OVER NICKEL
34 50 μ " GOLD OVER NICKEL



PRINTED CIRCUIT PINS

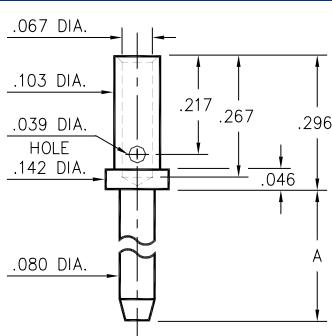


3231



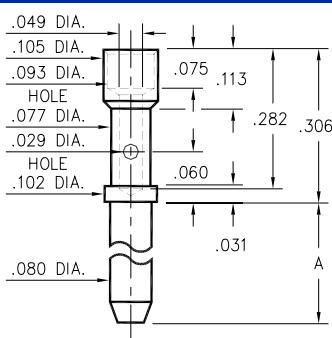
3231-X-00-XX-00-00-08-0
Swage mount in .094 hole.

3609



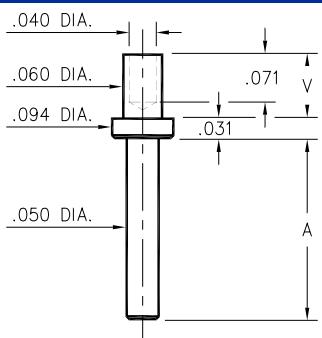
3609-X-07-XX-00-00-08-0
#16A Crimp barrel

3601



3601-X-07-XX-00-00-08-0
#20A Crimp barrel

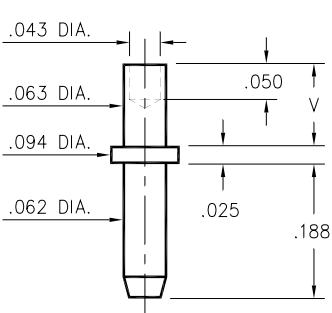
3133/3138/3152



Basic Part Number	Pin Length A	
3152-X	.094	
- X -	Board Thickness	Length V
1	.031	.063
2	.062	.094
3	.094	.125
4	.125	.156

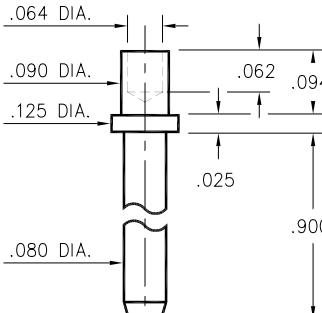
31XX-X-00-XX-00-00-08-0
Specify board thickness
Swage mount in .064 hole

3144



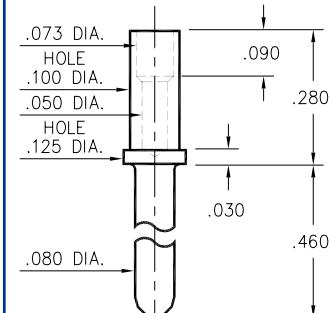
3144-X-00-XX-00-00-08-0
Swage mount in .067 hole.

3233



3233-2-00-XX-00-00-08-0
Swage mount in .094 hole.
For .062 thick board.

0520



0520-0-00-XX-00-00-03-0
Annealed
#18 Gage crimp barrel

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
(Except Swage pins which are annealed)

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

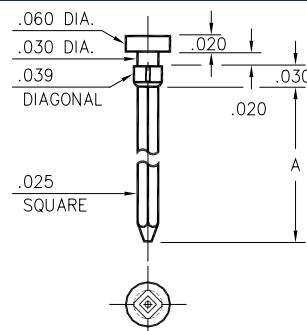
ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - 0X - 0

BASIC PART # _____

SPECIFY PIN FINISH:
01 200 μ " TIN/LEAD OVER NICKEL
15 10 μ " GOLD OVER NICKEL
21 20 μ " GOLD OVER NICKEL
34 50 μ " GOLD OVER NICKEL

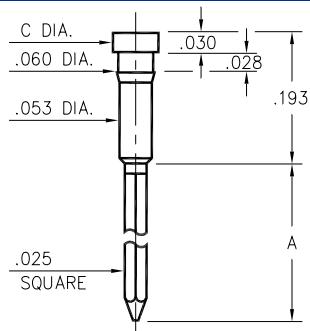


WRAPOST TERMINALS


5275

5275-X-05-XX-00-00-01-0

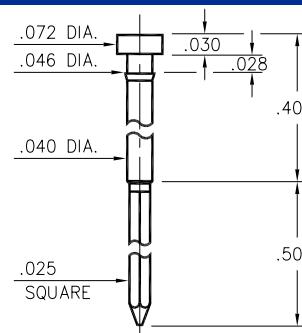
Square press-fit in .035 plated thru hole

Basic Part Number	# of Wraps	Wrapost Length A
5275-1	1	.370
5275-2	2	.470
5275-3	3	.610

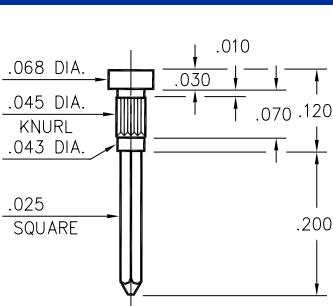
1010 ⇒ 1012/1020 ⇒ 1022

10XX-X-05-XX-00-00-01-0

Press-fit in .057 mounting hole

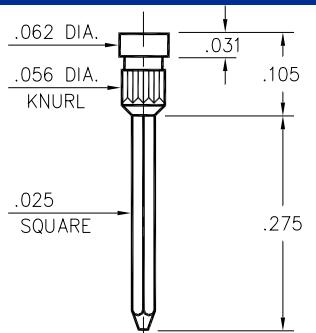
Basic Part Number	# of Wraps	Wrapost Length A	Head Dia. C
1012-1	1	.260	
1011-2	2	.360	
1010-3	3	.500	.072
1022-1	1	.260	
1021-2	2	.360	
1020-3	3	.500	.062

1215

1215-3-05-XX-00-00-01-0

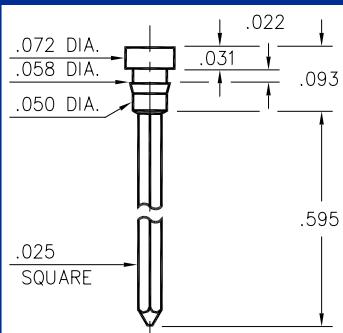
Press-fit in .043 mounting hole

1124

1124-0-05-XX-00-00-01-0

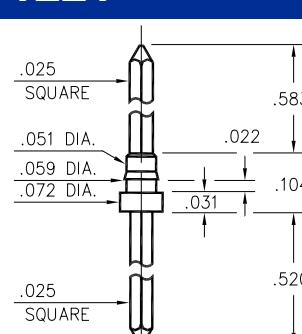
Press-fit in .043 mounting hole

1210

1210-0-05-XX-00-00-01-0

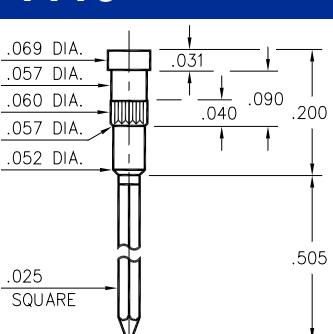
Press-fit in .053 mounting hole

1222

1222-0-05-XX-00-00-01-0

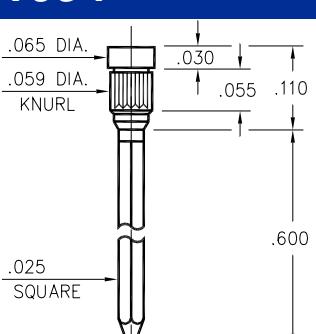
Press-fit in .055 mounting hole

1221

1221-0-05-XX-00-00-01-0

Press-fit in .056 mounting hole

1110

1110-3-05-XX-00-00-01-0

Press-fit in .057 mounting hole

1094

1094-0-05-XX-00-00-01-0

Press-fit in .056 mounting hole

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard

DIMENSION IN INCHES
TOLERANCES ON:
 LENGTHS: ±.005
 DIAMETERS: ±.002
 ANGLES: ± 2°

ORDER CODE: XXXX - X - 05 - XX - 00 - 00 - 01 - 0
BASIC PART # _____

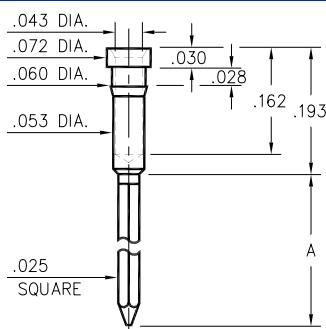
SPECIFY PIN FINISH:
01 200 μ " TIN/LEAD OVER NICKEL
15 10 μ " GOLD OVER NICKEL
21 20 μ " GOLD OVER NICKEL



WRAPOST TERMINALS



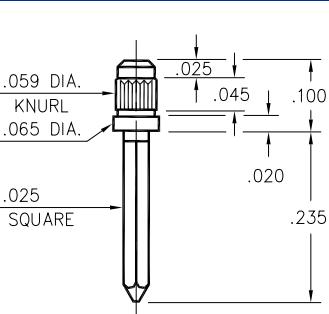
1030 → 1032



103X-X-05-XX-00-00-01-0
Press-fit in .057 mounting hole

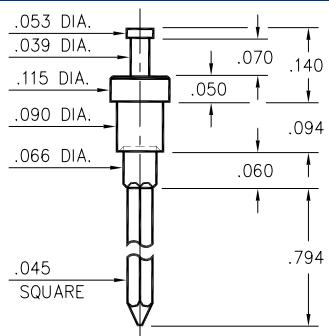
Basic Part Number	# of Wraps	Wrapost Length A
1032-1	1	.260
1031-2	2	.360
1030-3	3	.500

1216



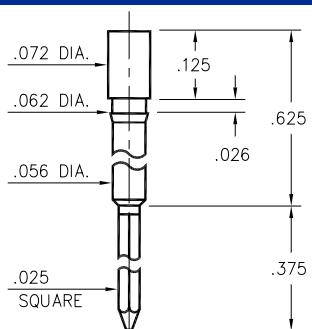
1216-0-05-XX-00-00-01-0
Press-fit in .056 mounting hole

1095



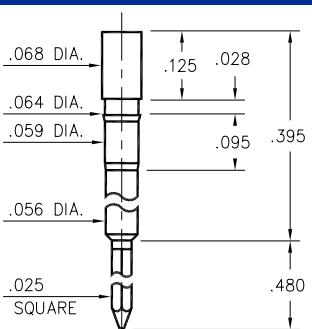
1095-0-05-XX-00-00-01-0
Swage mount in .094 hole
For .062 thick board

1214



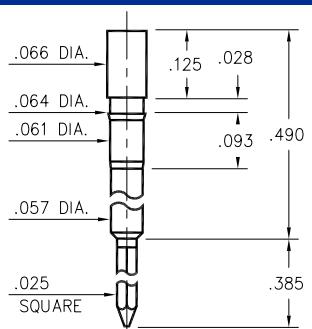
1214-0-05-XX-00-00-01-0
Press-fit in .059 mounting hole

1212



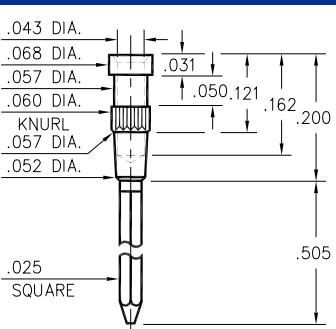
1212-0-05-XX-00-00-01-0
Press-fit in .061 mounting hole

1213



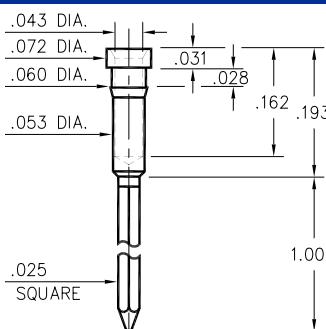
1213-0-05-XX-00-00-01-0
Press-fit in .061 mounting hole

0318



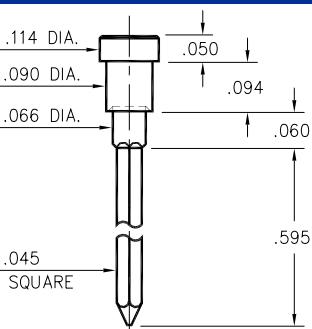
0318-3-05-XX-00-00-01-0
Press-fit in .057 mounting hole

1302



1302-0-05-XX-00-00-01-0
Press-fit in .057 mounting hole

1097



1097-0-05-XX-00-00-01-0
Swage mount in .094 hole
for .062 thick board

SPECIFICATIONS

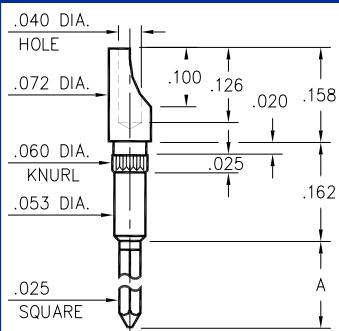
PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
Swage pins are annealed

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

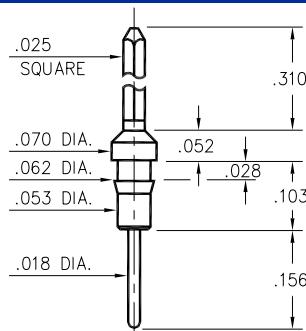
ORDER CODE: XXXX - X - 05 - XX - 00 - 00 - 01 - 0

BASIC PART # _____

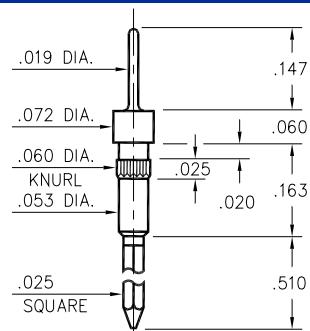
SPECIFY PIN FINISH:
01 200 μ " TIN/LEAD OVER NICKEL
15 10 μ " GOLD OVER NICKEL
21 20 μ " GOLD OVER NICKEL

8301

8301-X-24-XX-00-00-01-0

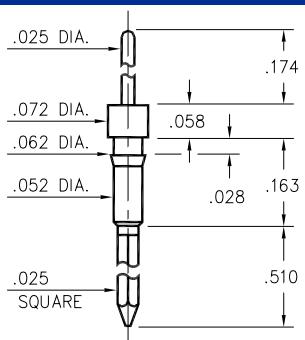
Press-fit in .057 mounting hole

1083

1083-0-05-XX-00-00-01-0

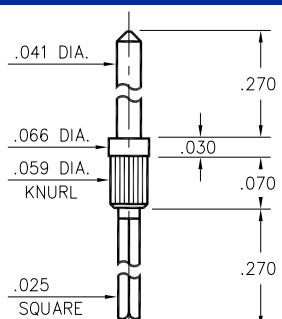
Press-fit in .059 mounting hole

5301

5301-0-05-XX-00-00-01-0

Press-fit in .057 mounting hole

1090

1090-0-05-XX-00-00-01-0

Press-fit in .059 mounting hole

8608

8608-0-05-XX-00-00-01-0

Press-fit in .056 mounting hole

SPECIFICATIONS
PIN MATERIAL:
Brass Alloy 360, 1/2 Hard

DIMENSION IN INCHES
TOLERANCES ON:
 LENGTHS: $\pm .005$
 DIAMETERS: $\pm .002$
 ANGLES: $\pm 2^\circ$
ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 01 - 0
BASIC PART # _____

SPECIFY PIN FINISH:

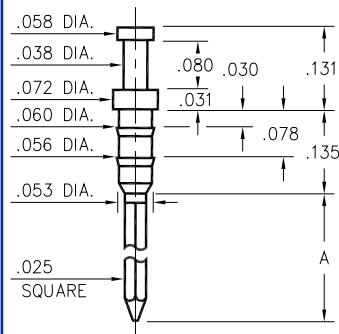
- 01 200 μ " TIN/LEAD OVER NICKEL
 15 10 μ " GOLD OVER NICKEL
 21 20 μ " GOLD OVER NICKEL



WRAPOST TERMINALS



1096

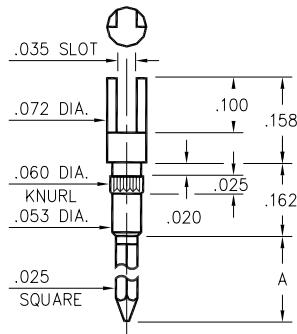


1096-X-05-XX-00-00-01-0

Press-fit in .057 mounting hole

1106

Basic Part Number	# of Wraps	Wrapost Length A
1096-2	2	.381
1096-3	3	.527

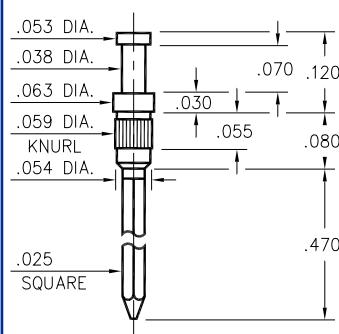


1106-X-23-XX-00-00-01-0

Press-fit in .057 mounting hole

Basic Part Number	# of Wraps	Wrapost Length A
1106-2	2	.370
1106-3	3	.510

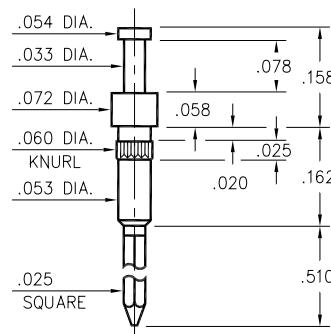
1093



1093-0-05-XX-00-00-01-0

Press-fit in .056 mounting hole

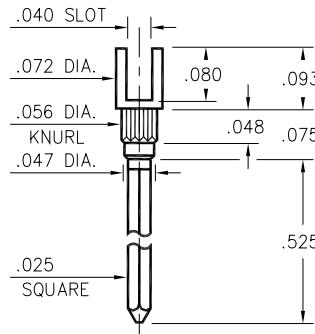
0730



0730-3-05-XX-00-00-01-0

Press-fit in .057 mounting hole

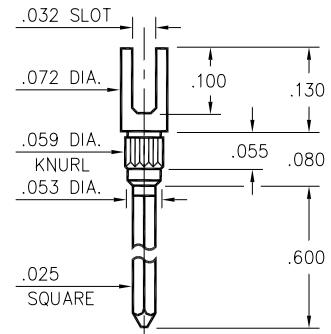
1122



1122-0-22-XX-00-00-01-0

Press-fit in .053 mounting hole

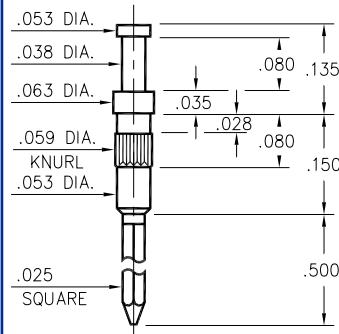
1064



1064-0-23-XX-00-00-01-0

Press-fit in .056 mounting hole

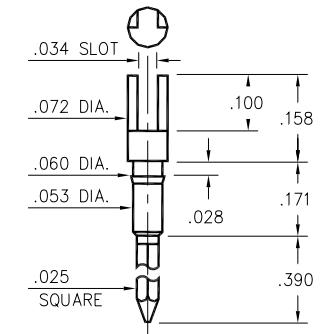
1092



1092-0-05-XX-00-00-01-0

Press-fit in .056 mounting hole

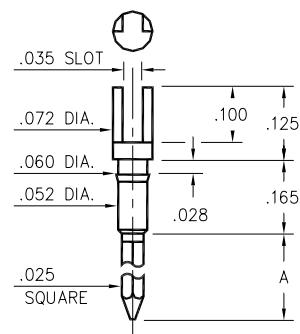
1068



1068-0-23-XX-00-00-01-0

Press-fit in .057 mounting hole

1070 ⇒ 1072



107X-X-23-XX-00-00-01-0

Press-fit in .057 mounting hole

Basic Part Number	# of Wraps	Wrapost Length A
1072-1	1	.260
1071-2	2	.370
1070-3	3	.510

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard

**DIMENSION IN INCHES
TOLERANCES ON:**
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - XX - XX - 00 - 00 - 01 - 0

BASIC PART # _____

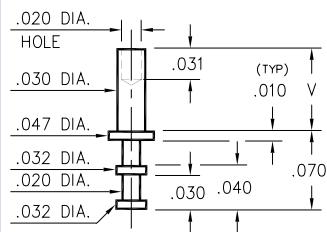
SPECIFY PIN FINISH:
01 200μ" TIN/LEAD OVER NICKEL
15 10μ" GOLD OVER NICKEL
21 20μ" GOLD OVER NICKEL



SOLDER TERMINALS TURRETS



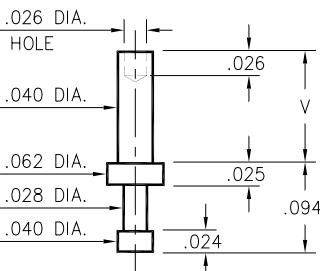
2111



2111-X-00-XX-00-00-07-0
Swage mount in .033 hole

- X -	Board Thick- ness	Length V
1	.031	.053
2	.062	.084
3	.094	.115

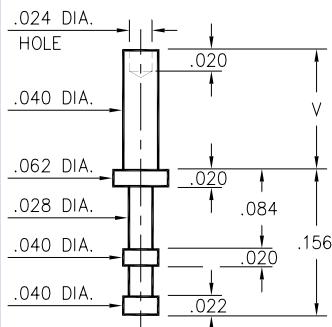
2113



2113-X-00-XX-00-00-07-0
Swage mount in .043 hole

- X -	Board Thick- ness	Length V
1	.031	.053
2	.062	.084
3	.094	.115
4	.125	.147

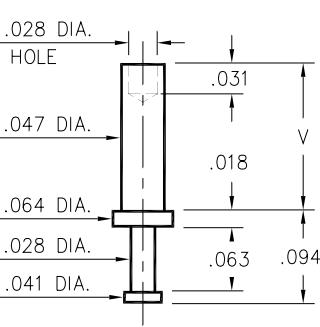
2108



2108-X-00-XX-00-00-07-0
Swage mount in .043 hole

- X -	Board Thick- ness	Length V
1	.031	.053
2	.062	.084
3	.094	.115
4	.125	.147

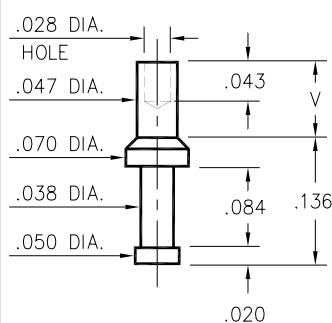
2102



2102-X-00-XX-00-00-07-0
Swage mount in .052 hole

- X -	Board Thick- ness	Length V
5	.016	.035
1	.031	.054
2	.062	.084
3	.094	.115
4	.125	.147

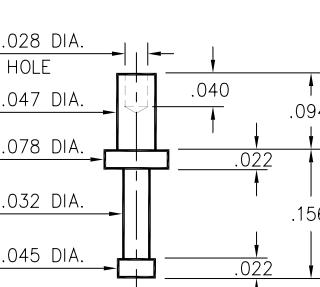
2109



2109-X-00-XX-00-00-07-0
Swage mount in .052 hole

- X -	Board Thick- ness	Length V
1	.031	.052
2	.062	.085

2324



2324-2-00-XX-00-00-07-0
Swage mount in .052 hole
for .062 thick board

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
Swage pins are annealed

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

ORDER CODE: 2XXX - X - 00 - XX - 00 - 00 - 07 - 0

BASIC PART # _____

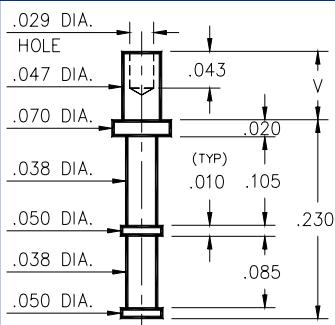
SPECIFY PIN FINISH:
01 200 μ " TIN/LEAD OVER NICKEL
44 300 μ " SILVER OVER COPPER
50 300 μ " ELECTRO-SOLDER
(60/40 SnPb)



SOLDER TERMINALS TURRETS



2110

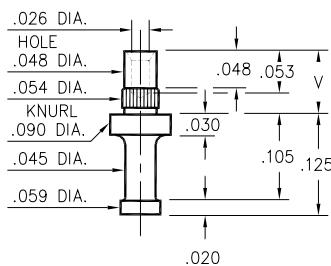


2110-X-00-XX-00-00-07-0

Swage mount in .052 hole

2333

- X -	Board Thick- ness	Length V
1	.031	.049
2	.062	.082

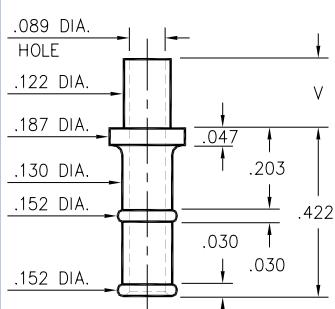


- X -	Board Thick- ness	Length V
1	.078	.103
2	.062	.087
3	.047	.072

2333-X-00-XX-00-00-07-0

Press-fit and swage in .052
mounting hole

2821

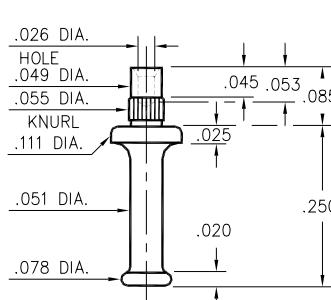


2821-X-00-XX-00-00-07-0

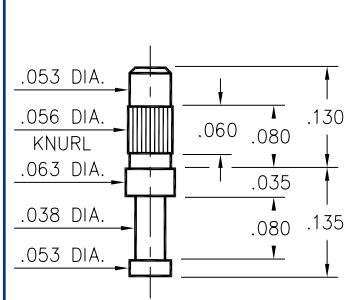
Swage mount in .125 hole

2533

- X -	Board Thick- ness	Length V
2	.062	.109
3	.094	.141
4	.125	.172



2101



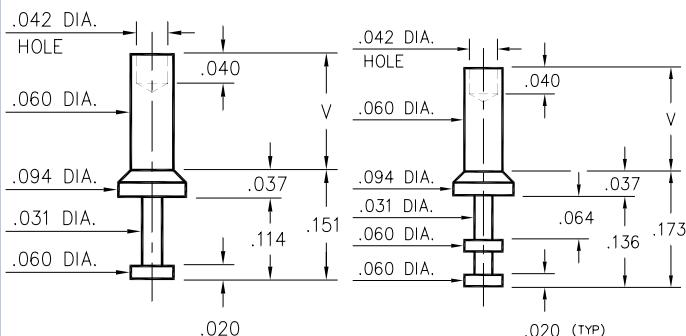
2533-0-00-XX-00-00-07-0

Press-fit & swage in .052 mtg.
hole. For .062 thick board

2101-3-00-XX-00-00-07-0

Press-fit in .053 mtg.
hole. For .062 to .094 thick board

2316/2317/2708



2316-X-00-XX-00-00-07-0

Swage mount in .064 hole

2317-X-00-XX-00-00-07-0

Swage mount in .064 hole

2708-X-00-XX-00-00-07-0

Swage mount in .120 hole

- X -	Board Thick- ness	Length V
1	.031	.062
2	.062	.094
3	.094	.125
4	.125	.156

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
Swage pins are annealed

**DIMENSION IN INCHES
TOLERANCES ON:**
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

ORDER CODE: 2XXX - X - 00 - XX - 00 - 00 - 07 - 0

BASIC PART # _____

SPECIFY PIN FINISH:

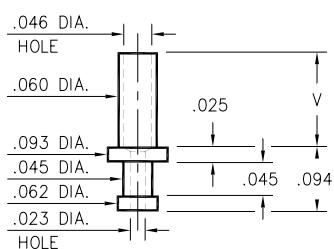
- 01 200 μ " TIN/LEAD OVER NICKEL
- 44 300 μ " SILVER OVER COPPER
- 50 300 μ " ELECTRO-SOLDER
(60/40 SnPb)



SOLDER TERMINALS TURRETS



2312

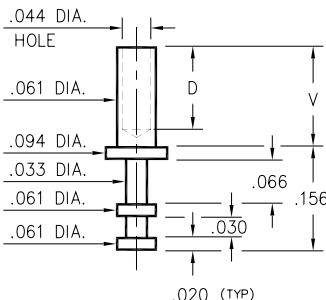


- X -	Board Thick- ness	Length V
1	.031	.053
2	.062	.094
3	.094	.115
4	.125	.147

2312-X-00-XX-00-00-07-0

Swage mount in .064 hole

2308

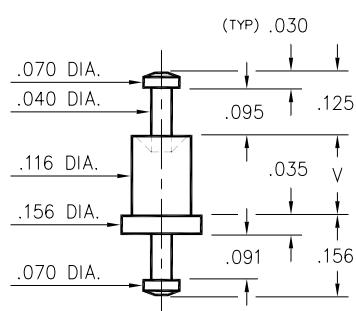


- X -	Board Thick- ness	Length V	Depth D
1	.031	.054	.036
2	.062	.084	.066
3	.094	.115	.096
4	.125	.147	.126

2308-X-00-XX-00-00-07-0

Swage in .064 mount hole

2707

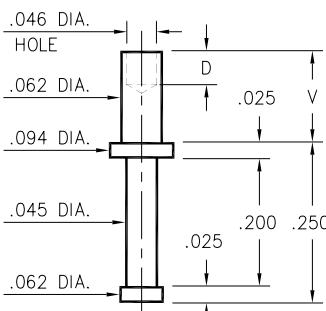


- X -	Board Thick- ness	Length V
1	.031	.062
2	.062	.094
3	.094	.125
4	.125	.156

2707-X-00-XX-00-00-07-0

Swage mount in .120 hole

2329

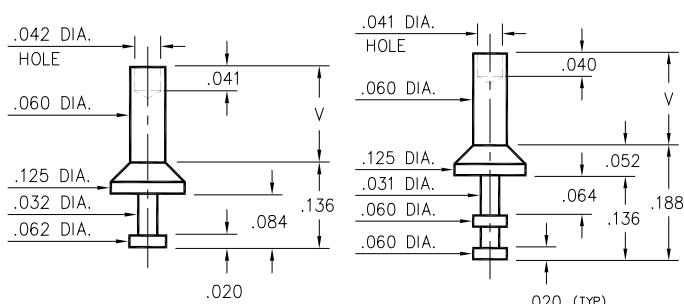


- X -	Board Thick- ness	Length V	Depth D
1	.031	.045	.045
2	.062	.094	
3	.094	.125	.062
4	.125	.156	

2329-X-00-XX-00-00-07-0

Swage mount in .067 hole

2510/2513



- X -	Board Thick- ness	Length V
1	.031	.062
2	.062	.094
3	.094	.125
4	.125	.156

2510-X-00-XX-00-00-07-0

Swage mount in .064 hole

2513-X-00-XX-00-00-07-0

Swage mount in .064 hole

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
Swage pins are annealed

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

ORDER CODE: 2XXX - X - 00 - XX - 00 - 00 - 07 - 0

BASIC PART # _____

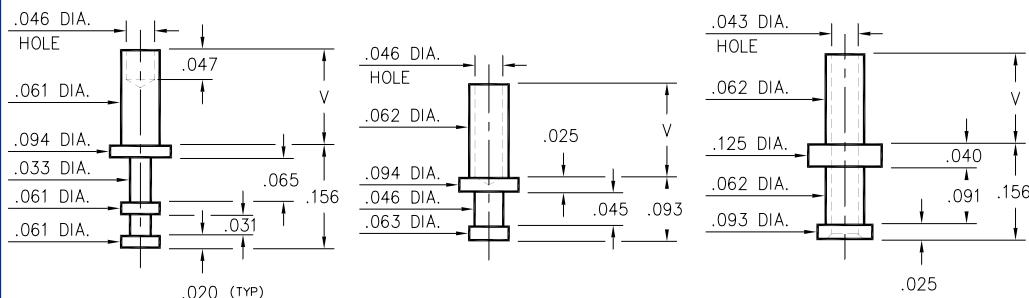
SPECIFY PIN FINISH:
01 200 μ " TIN/LEAD OVER NICKEL
44 300 μ " SILVER OVER COPPER
50 300 μ " ELECTRO-SOLDER
(60/40 SnPb)



SOLDER TERMINALS TURRETS



2348/2301/2506



- X -	Board Thickness	Length V
1	.031	.053
2	.062	.084
3	.094	.115
4	.125	.147

2348-X-00-XX-00-00-07-0

Swage mount in .064 hole

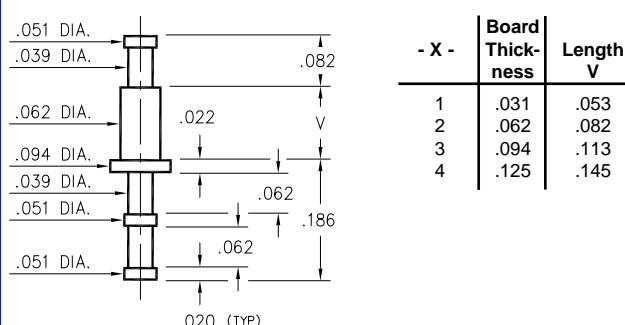
2301-X-00-XX-00-00-07-0

Swage mount in .067 hole

2506-X-00-XX-00-00-07-0

Swage mount in .067 hole

2310

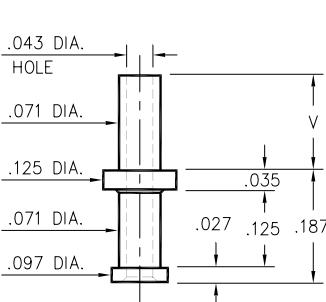


- X -	Board Thickness	Length V
1	.031	.053
2	.062	.082
3	.094	.113
4	.125	.145

2310-X-00-XX-00-00-07-0

Swage mount in .067 hole

2505

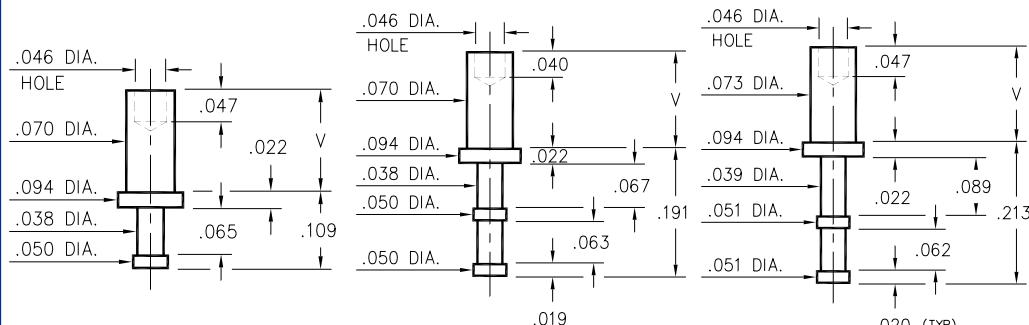


- X -	Board Thickness	Length V
1	.031	.062
2	.062	.093
3	.094	.125
4	.125	.156

2505-X-00-XX-00-00-07-0

Swage mount in .076 hole

2325/2355/2365



- X -	Board Thickness	Length V
1	.031	.053
2	.062	.084
3	.094	.115
4	.125	.147

2325-X-00-XX-00-00-07-0

Swage mount in .073 hole

2355-X-00-XX-00-00-07-0

Swage mount in .073 hole

2365-X-00-XX-00-00-07-0

Swage mount in .076 hole

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
Swage pins are annealed

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

ORDER CODE: 2XXX - X - 00 - XX - 00 - 00 - 07 - 0

BASIC PART # _____

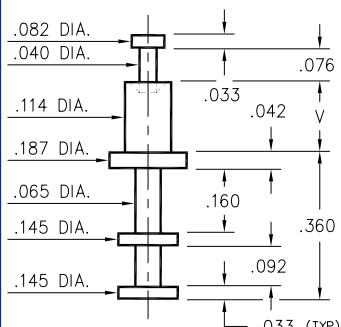
SPECIFY PIN FINISH:
01 200 μ " TIN/LEAD OVER NICKEL
44 300 μ " SILVER OVER COPPER
50 300 μ " ELECTRO-SOLDER
(60/40 SnPb)



SOLDER TERMINALS TURRETS



2810

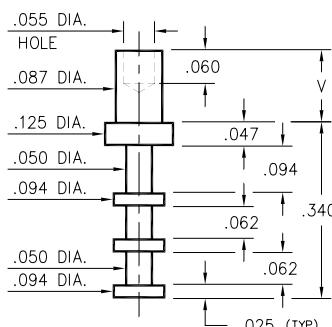


2810-X-00-XX-00-00-07-0

Swage mount in .118 hole

2524

- X -	Board Thickness	Length V
2	.062	.105
3	.094	.135
4	.125	.165

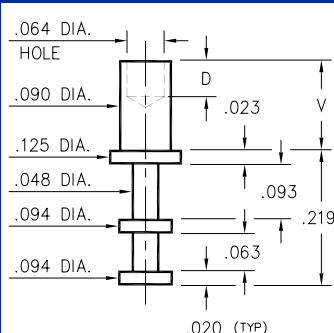


2524-X-00-XX-00-00-07-0

Swage mount in .092 hole

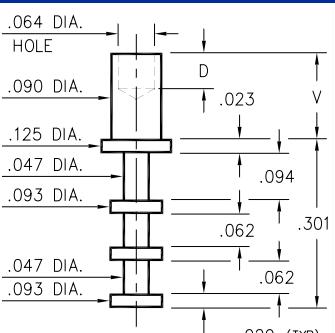
- X -	Board Thickness	Length V
1	.031	.075
2	.062	.105
3	.094	.135
4	.125	.165

2561/2508



2561-X-00-XX-00-00-07-0

Swage mount in .094 hole

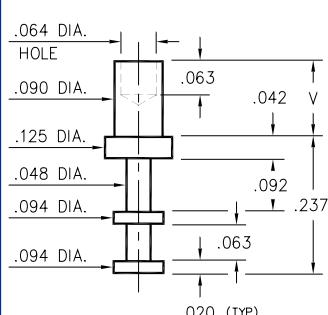


2508-X-00-XX-00-00-07-0

Swage mount in .094 hole

- X -	Board Thickness	Length V	Depth D
1	.031	.063	.047
2	.062	.094	
3	.094	.125	.062
4	.125	.156	

2551

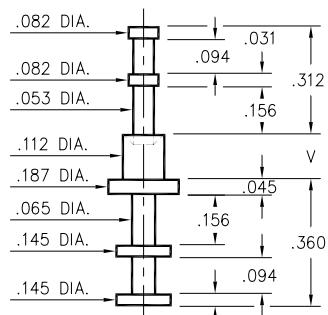


2551-X-00-XX-00-00-07-0

Swage mount in .094 hole

2812

- X -	Board Thickness	Length V
1	.031	.075
2	.062	.105
3	.094	.135
4	.125	.165



2812-X-00-XX-00-00-07-0

Swage mount in .116 hole

- X -	Board Thickness	Length V
1	.062	.105
2	.094	.135
3	.125	.165
4	.188	.230

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
Swage pins are annealed

**DIMENSION IN INCHES
TOLERANCES ON:**

LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

ORDER CODE: 2XXX - X - 00 - XX - 00 - 00 - 07 - 0

BASIC PART # _____

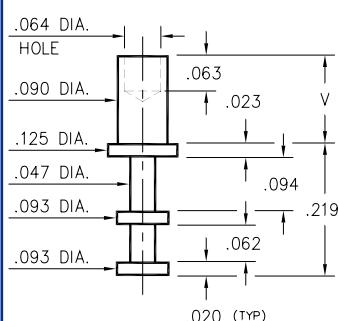
SPECIFY PIN FINISH:
01 200 μ " TIN/LEAD OVER NICKEL
44 300 μ " SILVER OVER COPPER
50 300 μ " ELECTRO-SOLDER
(60/40 SnPb)



SOLDER TERMINALS TURRETS



2501

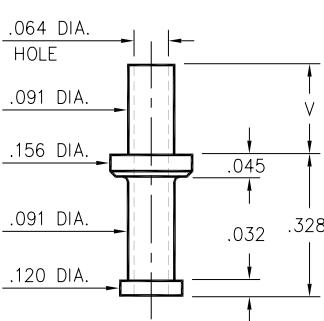


2501-X-00-XX-00-00-07-0

Swage mount in .094 hole

2703

- X -	Board Thick-ness	Length V
1	.031	.078
2	.062	.109
3	.094	.140
4	.125	.171

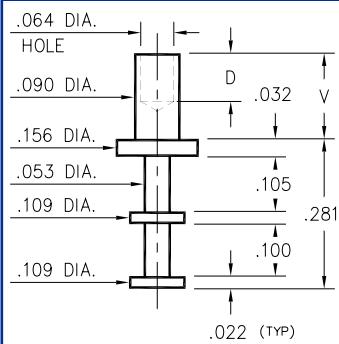


2703-X-00-XX-00-00-07-0

Swage mount in .094 hole

- X -	Board Thick-ness	Length V
1	.031	.077
2	.062	.107
3	.094	.137
4	.125	.167

2702

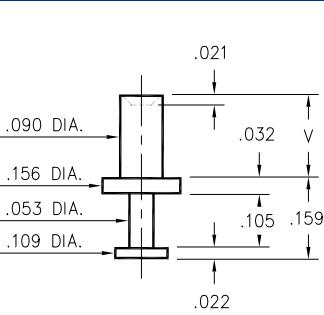


2702-X-00-XX-00-00-07-0

Swage mount in .094 hole

2710

- X -	Board Thick-ness	Length V	Depth D
1	.031	.075	.063
2	.062	.105	
3	.094	.135	.093
4	.125	.165	

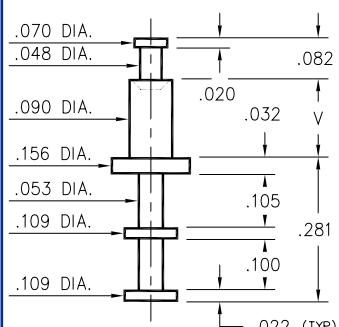


2710-X-00-XX-00-00-07-0

Swage mount in .094 hole

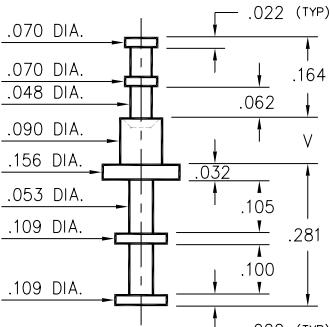
- X -	Board Thick-ness	Length V
1	.031	.062
2	.062	.094
3	.094	.125
4	.125	.156

2717/2713



2717-X-00-XX-00-00-07-0

Swage mount in .094 hole



2713-X-00-XX-00-00-07-0

Swage mount in .094 hole

- X -	Board Thick-ness	Length V
1	.031	.062
2	.062	.094
3	.094	.125
4	.125	.156

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
Swage pins are annealed

**DIMENSION IN INCHES
TOLERANCES ON:**
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

ORDER CODE: 2XXX - X - 00 - XX - 00 - 00 - 07 - 0

BASIC PART # _____

SPECIFY PIN FINISH:

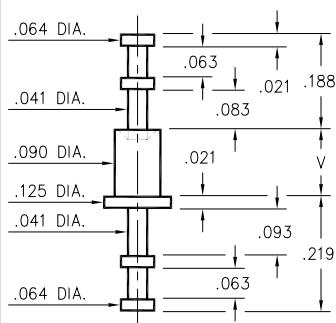
- 01 200 μ " TIN/LEAD OVER NICKEL
- 44 300 μ " SILVER OVER COPPER
- 50 300 μ " ELECTRO-SOLDER (60/40 SnPb)



SOLDER TERMINALS TURRETS



2512

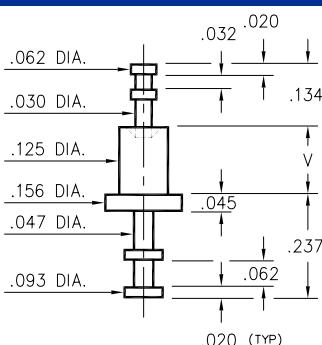


2512-X-00-XX-00-00-07-0

Swage mount in .094 hole

2705

- X -	Board Thickness	Length V
1	.031	.062
2	.062	.094
3	.094	.125
4	.125	.156

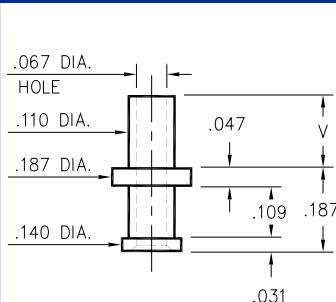


2705-X-00-XX-00-00-07-0

Swage mount in .129 hole

- X -	Board Thickness	Length V
1	.031	.075
2	.062	.105
3	.094	.135
4	.125	.165

2803

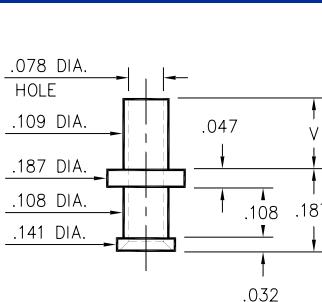


2803-X-00-XX-00-00-07-0

Swage mount in .113 hole

2815

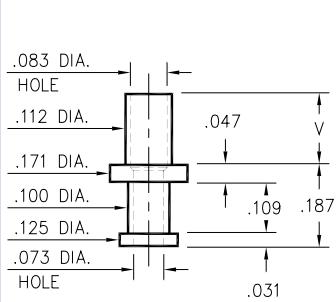
- X -	Board Thickness	Length V
1	.031	.078
2	.062	.109
3	.094	.140
4	.125	.171



2815-X-00-XX-00-00-07-0

Swage mount in .113 hole

2816

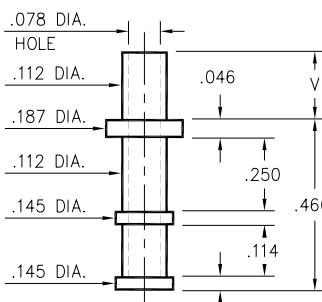


2816-X-00-XX-00-00-07-0

Swage mount in .116 hole

2817

- X -	Board Thickness	Length V
1	.031	.078
2	.062	.109
3	.094	.141
4	.125	.172



2817-X-00-XX-00-00-07-0

Swage mount in .116 hole

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
Swage pins are annealed

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

ORDER CODE: 2XXX - X - 00 - XX - 00 - 00 - 07 - 0

BASIC PART # _____

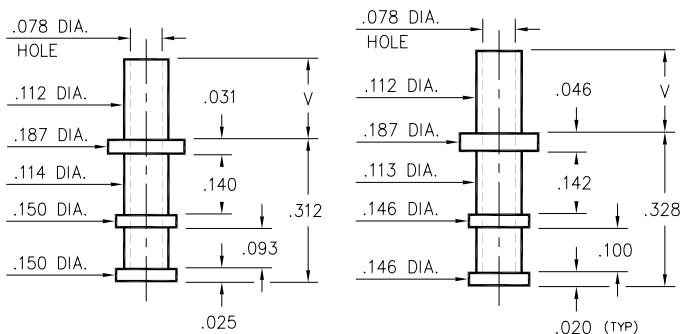
SPECIFY PIN FINISH:
01 200 μ " TIN/LEAD OVER NICKEL
44 300 μ " SILVER OVER COPPER
50 300 μ " ELECTRO-SOLDER
(60/40 SnPb)



SOLDER TERMINALS TURRETS



2802/2804



2802-X-00-XX-00-00-07-0

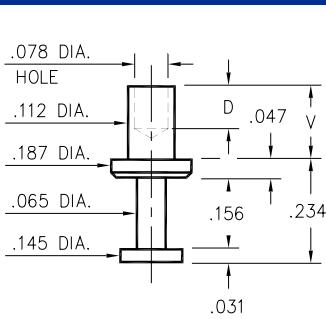
Swage mount in .118 hole

2804-X-00-XX-00-00-07-0

Swage mount in .118 hole

- X -	Board Thickness	Length V
1	.031	.078
2	.062	.109
3	.094	.140
4	.125	.171

2805

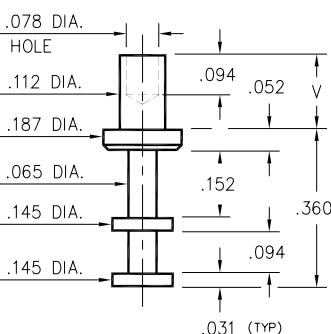


2805-X-00-XX-00-00-07-0

Swage mount in .116 hole

- X -	Board Thickness	Length V	Depth D
1	.031	.074	.068
2	.062	.105	
3	.094	.135	.098
4	.125	.165	

2801

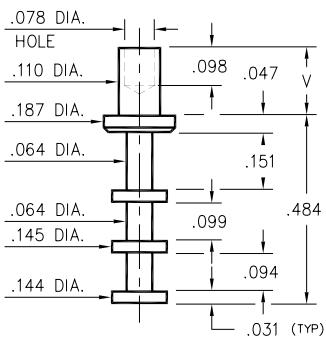


2801-X-00-XX-00-00-07-0

Swage mount in .116 hole

- X -	Board Thickness	Length V
1	.031	.078
2	.062	.109
3	.094	.141
4	.125	.172
5	.188	.234

2806

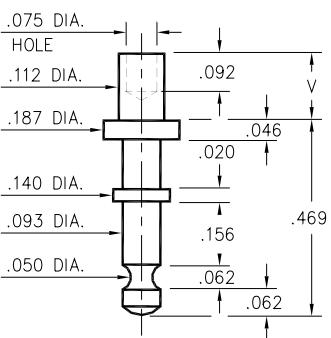


2806-X-00-XX-00-00-07-0

Swage mount in .116 hole

- X -	Board Thickness	Length V
1	.031	.078
2	.062	.109
3	.094	.141
4	.125	.172

2811



2811-X-00-XX-00-00-07-0

Swage mount in .116 hole

- X -	Board Thickness	Length V
1	.031	.075
2	.062	.105
3	.094	.135
4	.125	.165

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
Swage pins are annealed

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

ORDER CODE: 28XX - X - 00 - XX - 00 - 00 - 07 - 0

BASIC PART # _____

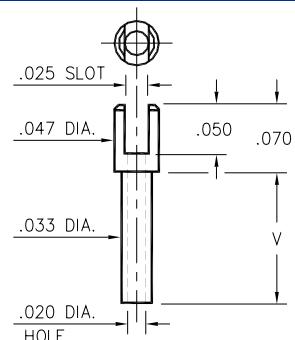
SPECIFY PIN FINISH:
01 200 μ " TIN/LEAD OVER NICKEL
44 300 μ " SILVER OVER COPPER
50 300 μ " ELECTRO-SOLDER
(60/40 SnPb)



SOLDER TERMINALS SLOTTED



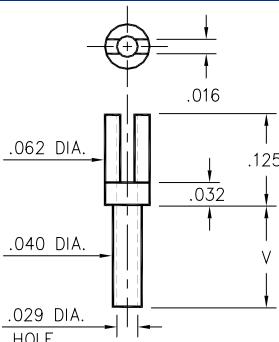
2104



2104-X-01-XX-00-00-07-0

Swage mount in .036 hole

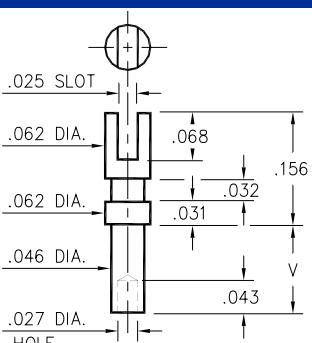
2112



2112-X-01-XX-00-00-07-0

Swage mount in .043 hole

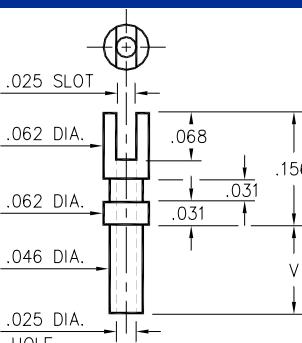
2105



2105-X-01-XX-00-00-07-0

Swage mount in .052 hole

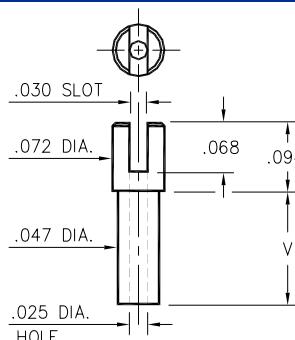
2103



2103-X-01-XX-00-00-07-0

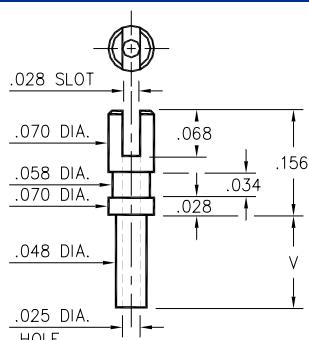
Swage mount in .052 hole

2106/2107



2106-X-01-XX-00-00-07-0

Swage mount in .052 hole



2107-X-01-XX-00-00-07-0

Swage mount in .052 hole

- X -	Board Thickness	Length V
1	.031	.055
2	.062	.086
3	.094	.117
4	.125	.149

- X -	Board Thickness	Length V
1	.031	.058
2	.062	.089
3	.094	.120
4	.125	.150

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
Swage pins are annealed

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

ORDER CODE: 21XX - X - 01 - XX - 00 - 00 - 07 - 0

BASIC PART # _____

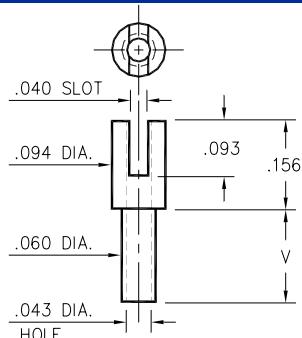
SPECIFY PIN FINISH:
01 200 μ " TIN/LEAD OVER NICKEL
44 300 μ " SILVER OVER COPPER
50 300 μ " ELECTRO-SOLDER
(60/40 SnPb)



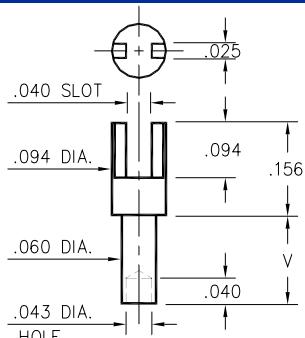
SOLDER TERMINALS SLOTTED



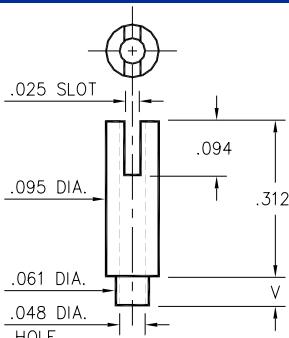
2303/2323/2322



2303-X-01-XX-00-00-07-0
Swage mount in .064 hole



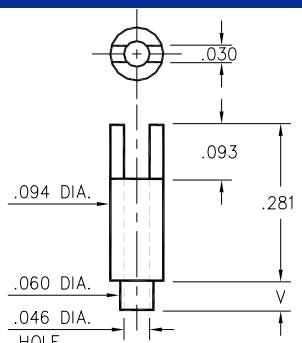
2323-X-01-XX-00-00-07-0
Swage mount in .064 hole



2322-X-01-XX-00-00-07-0
Swage mount in .064 hole

- X -	Board Thickness	Length V
1	.031	.053
2	.062	.084
3	.094	.115
4	.125	.147

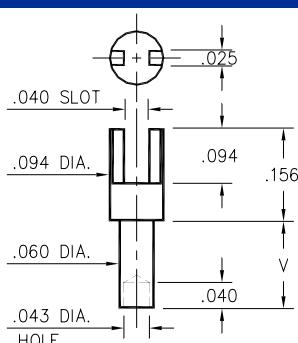
2320



2320-X-01-XX-00-00-07-0
Swage mount in .064 hole

- X -	Board Thickness	Length V
1	.031	.053
2	.062	.084
3	.094	.115

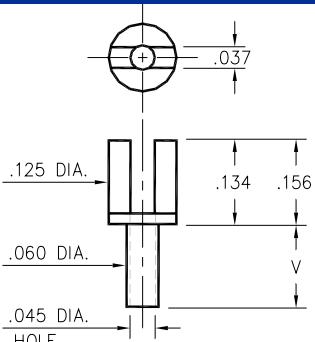
2328



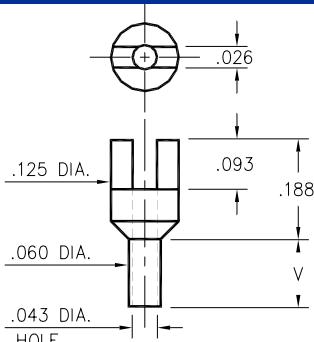
2328-X-01-XX-00-00-07-0
Swage mount in .064 hole

- X -	Board Thickness	Length V
1	.031	.062
2	.062	.094
3	.094	.125
4	.125	.156

2520/2517



2520-X-01-XX-00-00-07-0
Swage mount in .064 hole



2517-X-01-XX-00-00-07-0
Swage mount in .064 hole

- X -	Board Thickness	Length V
1	.031	.062
2	.062	.094
3	.094	.125
4	.125	.156

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
Swage pins are annealed

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

ORDER CODE: 2XXX - X - 01 - XX - 00 - 00 - 07 - 0

BASIC PART # _____

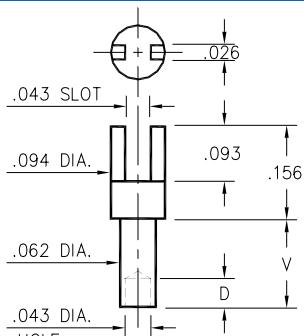
SPECIFY PIN FINISH:
01 200 μ " TIN/LEAD OVER NICKEL
44 300 μ " SILVER OVER COPPER
50 300 μ " ELECTRO-SOLDER
(60/40 SnPb)



SOLDER TERMINALS SLOTTED



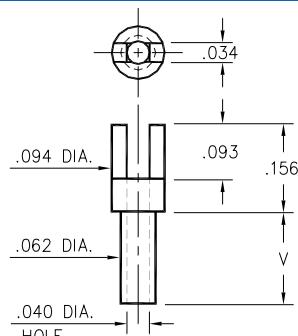
2315



2315-X-01-XX-00-00-07-0

Swage mount in .067 hole

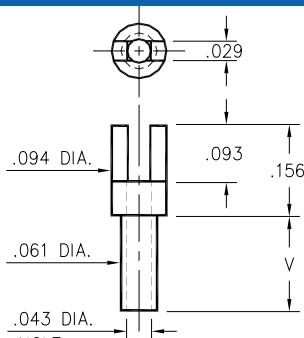
2302



2302-X-01-XX-00-00-07-0

Swage mount in .067 hole.

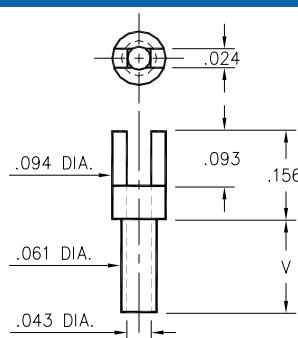
2352



2352-X-01-XX-00-00-07-0

Swage mount in .067 hole

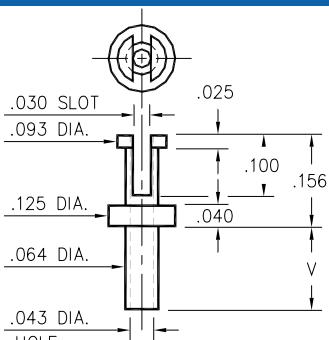
2362



2362-X-01-XX-00-00-07-0

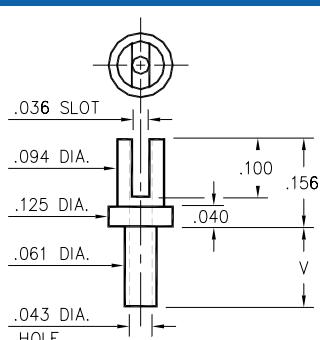
Swage mount in .067 hole

2507/2526



2507-X-01-XX-00-00-07-0

Swage mount in .067 hole



2526-X-01-XX-00-00-07-0

Swage mount in .064 hole

- X -	Board Thickness	Length V
1	.031	.045
2	.062	.094
3	.094	.125
4	.125	.156

- X -	Board Thickness	Length V
5	.016	.037
1	.031	.053
2	.062	.084
3	.094	.115
4	.125	.147

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
Swage pins are annealed

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

ORDER CODE: 2XXX - X - 01 - XX - 00 - 00 - 07 - 0

BASIC PART # _____

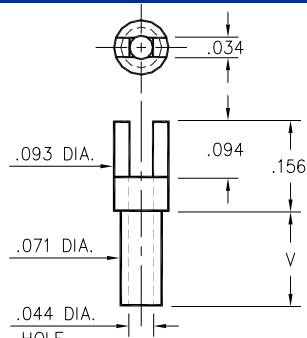
SPECIFY PIN FINISH:
01 200 μ " TIN/LEAD OVER NICKEL
44 300 μ " SILVER OVER COPPER
50 300 μ " ELECTRO-SOLDER
(60/40 SnPb)



SOLDER TERMINALS SLOTTED



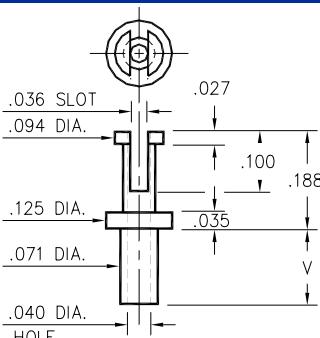
2314



2314-X-01-XX-00-00-07-0

Swage mount in .076 hole

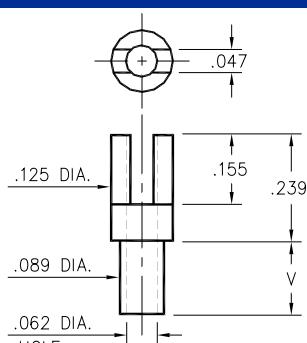
2511



2511-X-01-XX-00-00-07-0

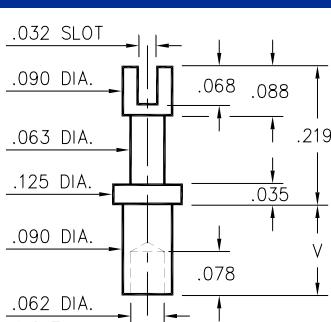
Swage mount in .076 hole

2515/2516



2515-X-01-XX-00-00-07-0

Swage mount in .094 hole



2516-X-01-XX-00-00-07-0

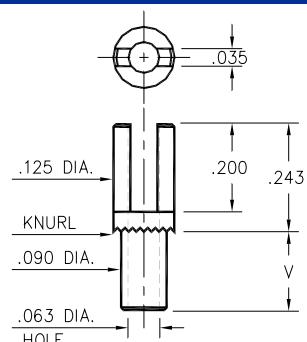
Swage mount in .094 hole

- X -	Board Thickness	Length V
1	.031	.063
2	.062	.094
3	.094	.125
4	.125	.156

2511-X-01-XX-00-00-07-0

Swage mount in .076 hole

2502



2502-X-01-XX-00-00-07-0

Swage mount in .094 hole

- X -	Board Thickness	Length V
1	.031	.080
2	.062	.111
3	.094	.143
4	.125	.174

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
Swage pins are annealed

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

ORDER CODE: 2XXX - X - 01 - XX - 00 - 00 - 07 - 0

BASIC PART # _____

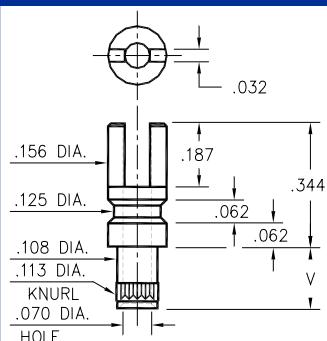
SPECIFY PIN FINISH:
01 200 μ " TIN/LEAD OVER NICKEL
44 300 μ " SILVER OVER COPPER
50 300 μ " ELECTRO-SOLDER
(60/40 SnPb)



SOLDER TERMINALS SLOTTED



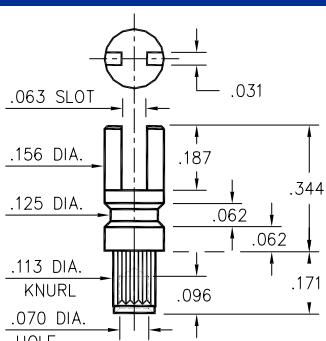
2715



2715-X-01-XX-00-00-07-0

Swage mount in .116 hole

2762

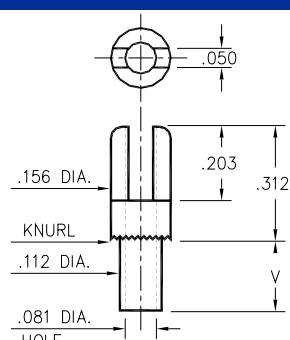


2762-4-01-XX-00-00-07-0

Swage mount in .116 hole

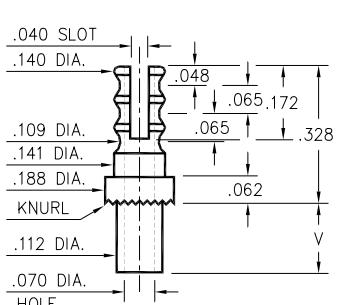
For .125 thick board

2701/2808



2701-X-01-XX-00-00-07-0

Swage mount in .116 hole

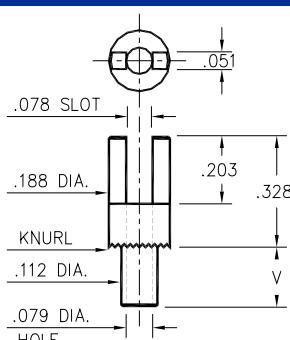


2808-X-01-XX-00-00-07-0

Swage mount in .116 hole

- X -	Board Thickness	Length V
1	.031	.075
2	.062	.105
3	.094	.135
4	.125	.165

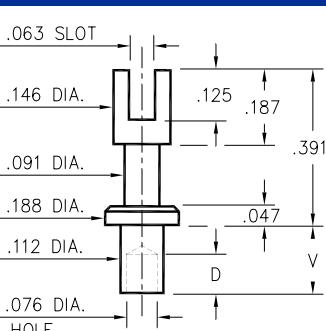
2807



2807-X-01-XX-00-00-07-0

Swage mount in .116 hole

2809



2809-X-01-XX-00-00-07-0

Swage mount in .116 hole

- X -	Board Thickness	Length V	Depth D
1	.031	.078	.068
2	.062	.109	
3	.094	.141	.098
4	.125	.172	

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
Swage pins are annealed

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

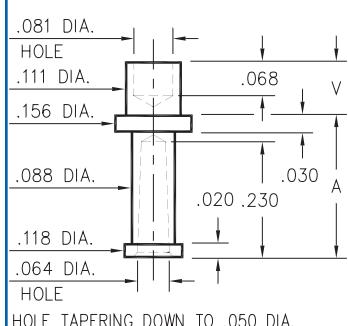
ORDER CODE: 2XXX - X - 01 - XX - 00 - 00 - 07 - 0

BASIC PART # _____

SPECIFY PIN FINISH:
01 200 μ " TIN/LEAD OVER NICKEL
44 300 μ " SILVER OVER COPPER
50 300 μ " ELECTRO-SOLDER
(60/40 SnPb)



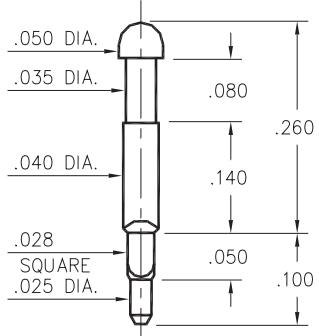
SOLDER TERMINALS VARIOUS TYPES

**2709****2709-X-07-XX-00-00-07-0**

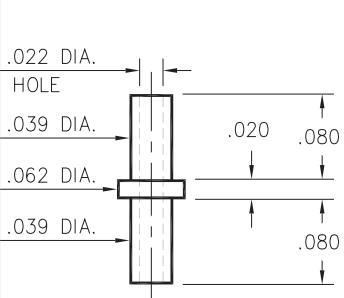
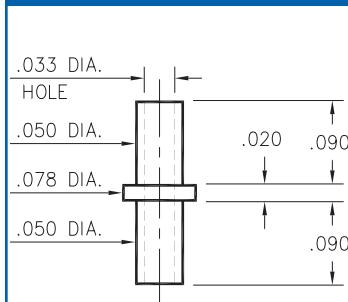
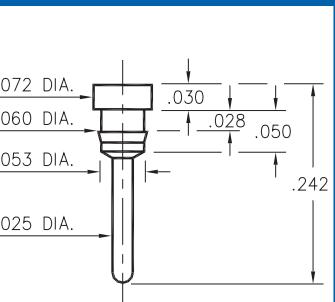
Swage mount in .116 hole

8602

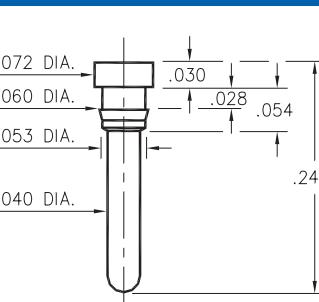
- X -	Board Thickness	V	Length A
2	.062	.109	.281
3	.094	.141	.250

**8602-1-00-XX-00-00-07-0**

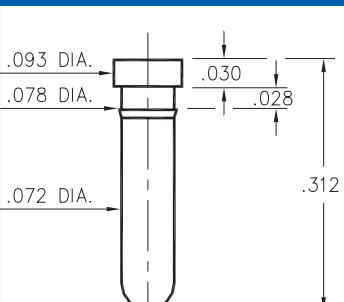
Square press-fit in .032 plated thru hole

2115**2115-2-00-XX-00-00-07-0**Swage mount in .043 hole
For .062 thick board**2326****2326-2-00-XX-00-00-07-0**Swage mount in .055 hole
for .062 thick board**8831****8831-0-00-XX-00-00-03-0**

Press-fit in .057 mounting hole

8835**8835-0-00-XX-00-00-03-0**

Press-fit in .057 mounting hole

8836**8836-0-00-XX-00-00-03-0**

Press-fit in .075 mounting hole

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
Swage pins are annealed

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - 0X - 0**BASIC PART #** _____**SPECIFY PIN FINISH:**

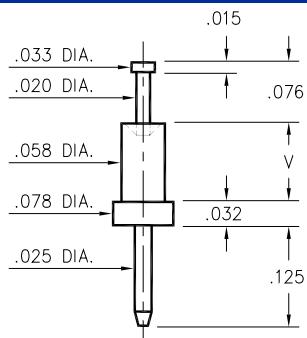
- 01 200 μ " TIN/LEAD OVER NICKEL
- 44 300 μ " SILVER OVER COPPER
- 50 300 μ " ELECTRO-SOLDER
(60/40 SnPb)



SOLDER TERMINALS PIN TYPE



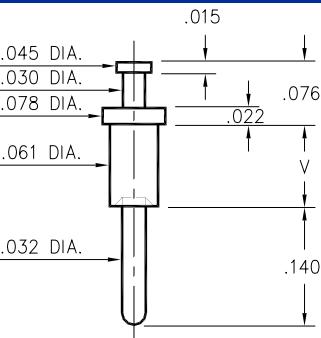
2318



2318-X-00-XX-00-00-07-0
Swage mount in .062 hole

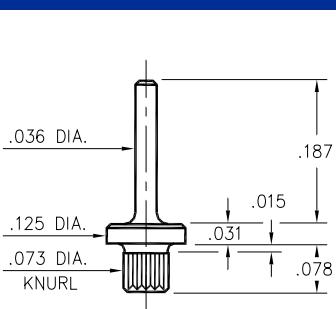
2309

- X -	Board Thick- ness	Length V
1	.031	.051
2	.062	.082
3	.094	.113



2309-X-00-XX-00-00-07-0
Swage mount in .064 hole

2514



2514-2-00-XX-00-00-07-0
Press-fit in .070 mounting hole

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
Swage pins are annealed

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - 07 - 0

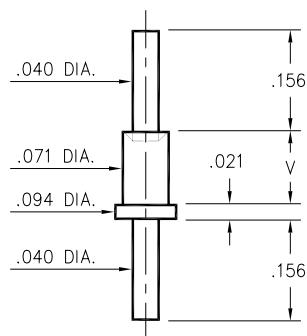
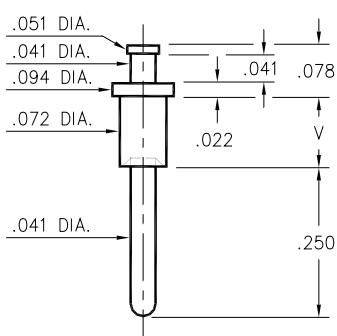
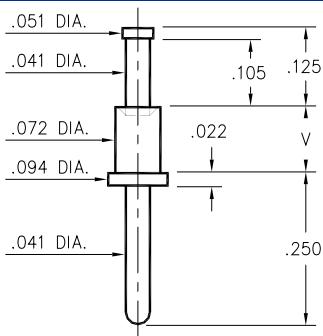
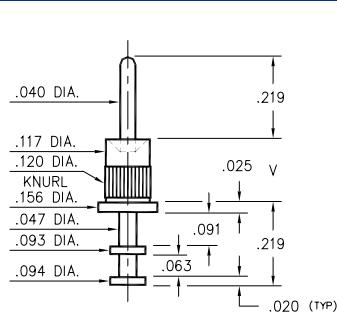
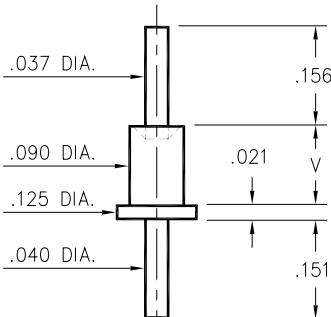
BASIC PART # _____

SPECIFY PIN FINISH:
01 200 μ " TIN/LEAD OVER NICKEL
44 300 μ " SILVER OVER COPPER
50 300 μ " ELECTRO-SOLDER
(60/40 SnPb)



SOLDER TERMINALS

PIN TYPE

**2319**2319-X-00-XX-00-00-07-0
Swage mount in .076 hole**2313**2313-X-00-XX-00-00-07-0
Swage mount in .076 hole**2321**2321-X-00-XX-00-00-07-0
Swage mount in .076 hole**2706**2706-X-00-XX-00-00-07-0
Swage mount in .120 hole**2530**2530-X-00-XX-00-00-07-0
Swage mount in .094 hole

- X -	Board Thickness	Length V
1	.031	.051
2	.062	.082
3	.094	.113
4	.125	.145

- X -	Board Thickness	Length V
1	.031	.051
2	.062	.082
3	.094	.113
4	.125	.145

- X -	Board Thickness	Length V
1	.031	.051
2	.062	.084
3	.094	.113
4	.125	.145

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
Swage pins are annealed

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

ORDER CODE: 2XXX - X - 0X - XX - 00 - 00 - 07 - 0**BASIC PART #** _____

SPECIFY PIN FINISH:
01 200 μ " TIN/LEAD OVER NICKEL
44 300 μ " SILVER OVER COPPER
50 300 μ " ELECTRO-SOLDER
(60/40 SnPb)



GENERAL CONTACT INFORMATION



THE "MULTI-FINGER" CONTACT

Mill-Max makes pin receptacles by press-fitting a "multi-finger" spring contact into a machined shell. A selection of 32 contact types are pre-tooled for those who wish to design custom receptacles. This extensive family of contacts will accept round pins ranging from .012" to .102" diameter, as well as rectangular component leads and square wrap posts, where the effective diameter is taken as the diagonal dimension of the lead.

Many contacts are interchangeable within a given shell, and so the contact selector chart has been organized by alternate contact groupings. Standard receptacles found in this catalog can be easily assembled with alternate contacts to suit special applications, for example: low insertion force or high operating temperature.

Contact Groups	Contact Type	Accepts Minimum Pin Diameter	Accepts Maximum Pin Diameter	Contact Compliancy	Contact Length	Number of Fingers	Contact Material	Current Rating (For 10°C ΔT)					
A	#04	.008	.013	.003	.053	3	BeCu	2A					
	#01	.014	.018		.061	4							
	#10	.012	.017		.060	6							
	#09	.015	.018	.002	.051	3							
	#11		.020	.003	.075								
	#21		.022	.004									
	#05			.003									
	#12		.025	.005	.062	4		3A					
	#22			.004	.083	6							
	#30			.009		4	BeNi						
	#38			.008		6							
	#32			.005									
C	#35	.026	.032	.004	.113	4	BeCu	4.5A					
	#43			.007		6							
	#15			.005									
	#06			.006									
	#26			.006									
D	#16		.022	.006	.083	6	BeNi	8A					
	#47			.011	.120								
	#18			.004									
	#36			.022	4								
	#49			.042									
E	#34	.032	.046	.006	.125	4	BeNi	11.2A					
	#24			.010	.120								
	#28			.009									
	#02			.006									
F	#28	.040	.050	.005	.084	6	BeCu	15A					
	#03	.042	.052	.010	.150	4							
G	#23	.040	.060	.008	.100	6	BeCu	18A					
	#13	.045	.065	.010	.127	4							
H	#07	.065	.082	.013	.150	BeCu	203						
	#14		.064	.014									
	#08	.084	.102	.011	.122	6							



CONTACT SPECIFICATIONS

COMPLIANCEY (δ)

The Mill-Max "multi-finger" contact exhibits wide compliance, ie: the ability of any single contact to accept a broad range of round pins as well as rectangular or square component leads. This ability is referred to as the contact's "compliance". The compliance factor (δ) specifies the re-configured operating range after the initial insertion of the largest permissible mating pin. For example: the # 34 contact has an initial operating range from .032" to .047" diameter pins, and a compliance of .010"; but after insertion of a .047" pin, the contact is sized, and the minimum pin acceptance becomes $.047" - .010" = .037"$. Thus, the new operating range becomes .037" to .047".

The insertion/extraction/normal force characteristics that follow were derived using 30μ " gold plated contact and polished steel, gauge pins having a bullet-shaped tip. The curves represent typical average values. The charts only guide you in selecting a clip that is close to your specification. Your results may vary, so for your specification, **use the action card in the back of this catalog to obtain complimentary samples for your evaluation.**

NORMAL FORCE

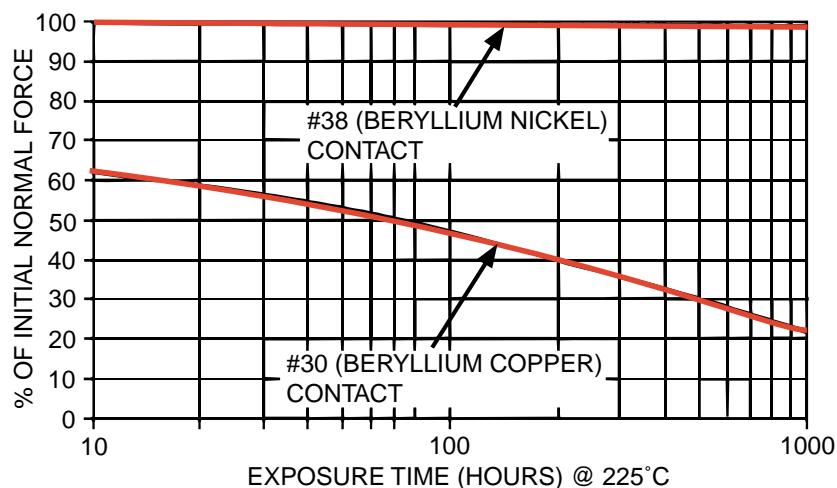
Normal force is the force with which each finger of the "multi-finger" contact grips the mating pin or component lead. For normal forces below 30 grams, gold on both the pin and contact is recommended. For normal forces above 100 grams, tin finish has proven to be very reliable.

CURRENT RATING

Current rating for each contact group can be found in the contact selector chart on page 203. This current rating (for a $10^\circ C$ temperature rise above ambient) is conservative since it rates an individual pin/ receptacle pair in the free air. For all practical applications, the current rating will be higher because of the heat sinking ability of wires and circuit traces attached to the pin and receptacles.

CONTACT MATERIAL AND STRESS RELAXATION AT HIGH TEMPERATURE

Mill-Max contacts are made from either beryllium copper or beryllium nickel that has been heat treated to achieve ultimate spring properties. The graph illustrates how beryllium copper loses its spring properties over time at a high temperature ($225^\circ C$). Thus for burn-in applications and continuous operation above $150^\circ C$, beryllium nickel should be substituted for beryllium copper.





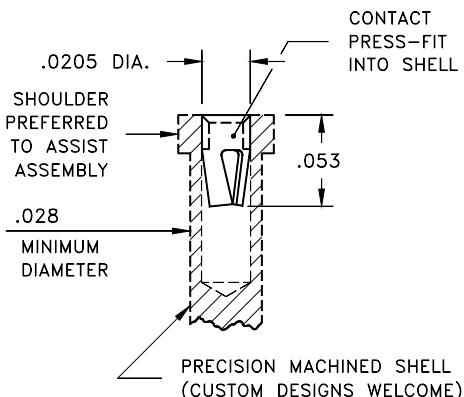
CONTACT DATA

Insertion / Extraction Force Graphs

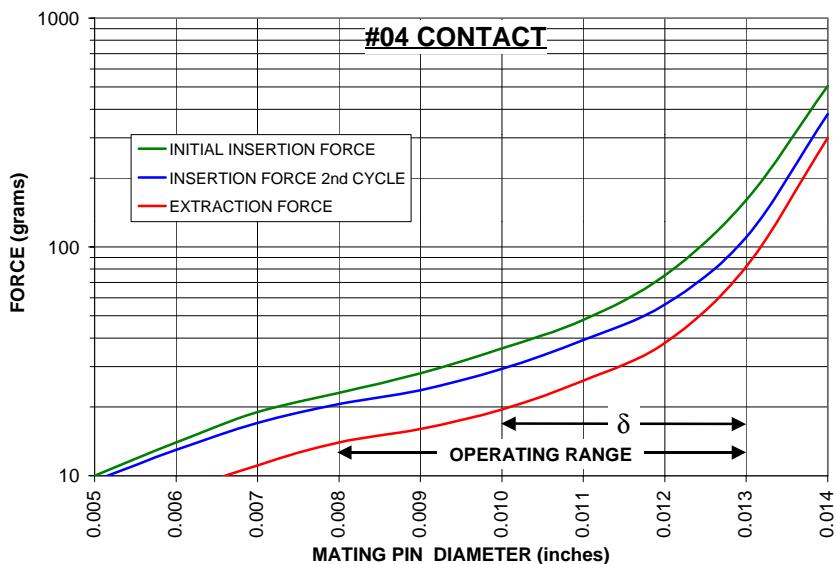


#04 CONTACT

FOR .008-.013 DIAMETER PINS ($\delta=.003$)
3-FINGER

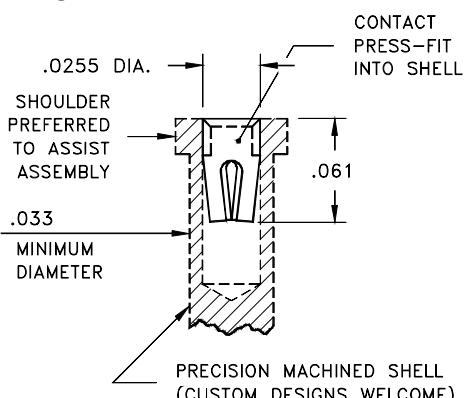


CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated

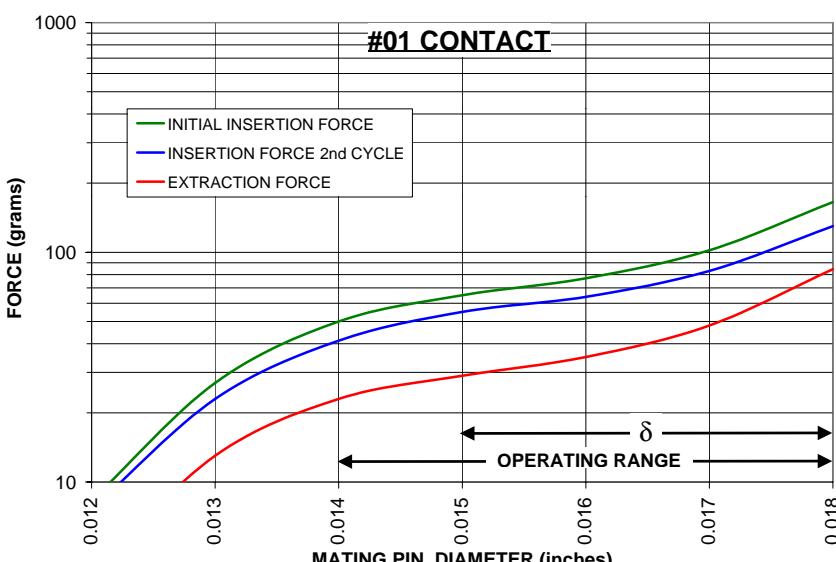


#01 CONTACT

FOR .014-.018 DIAMETER PINS ($\delta=.003$)
4-FINGER

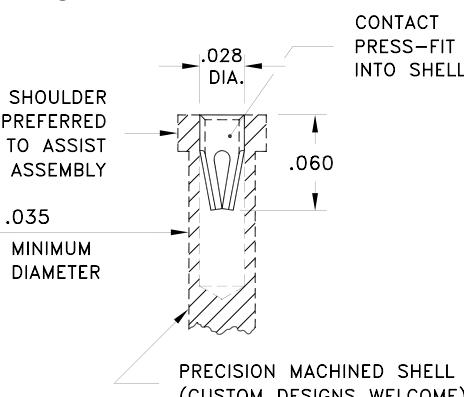


CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated

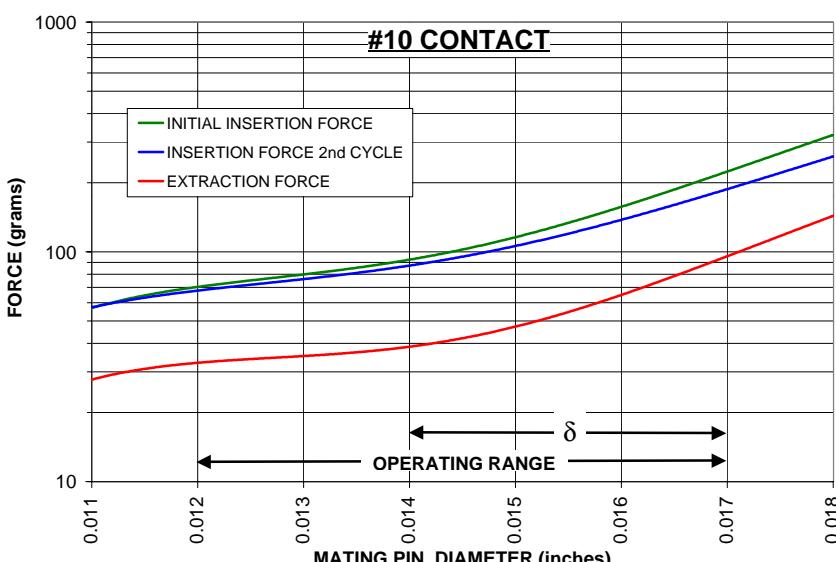


#10 CONTACT

FOR .012-.017 DIAMETER PINS ($\delta=.003$)
6-FINGER



CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated





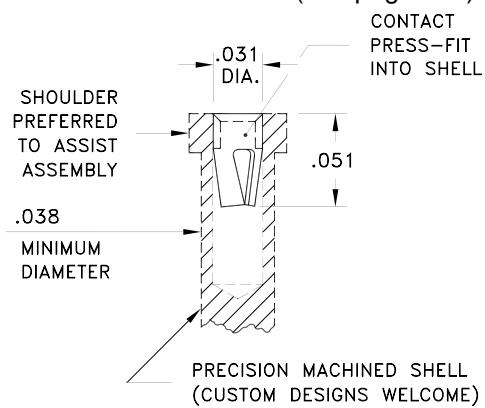
CONTACT DATA

Insertion / Extraction Force Graphs



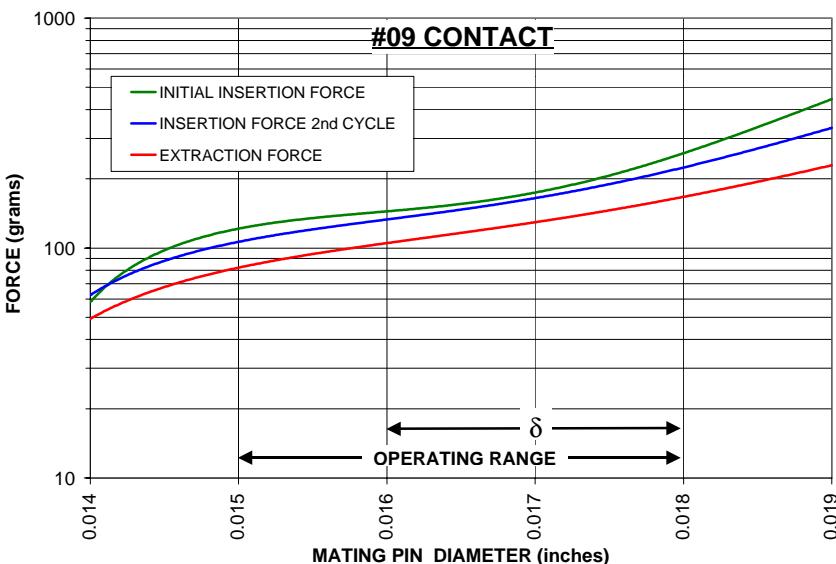
#09 CONTACT

FOR .015-.018 DIAMETER PINS ($\delta=.002$)
3-FINGER GROUP A (see page 203)



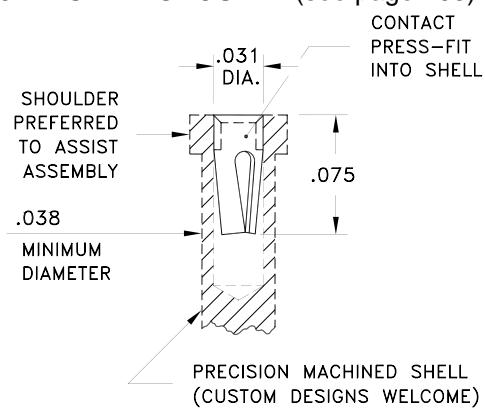
CONTACT MATERIAL:

BERYLLIUM COPPER Alloy 172, Heat Treated



#11 CONTACT

FOR .015-.020 DIAMETER PINS ($\delta=.003$)
3-FINGER GROUP A (see page 203)



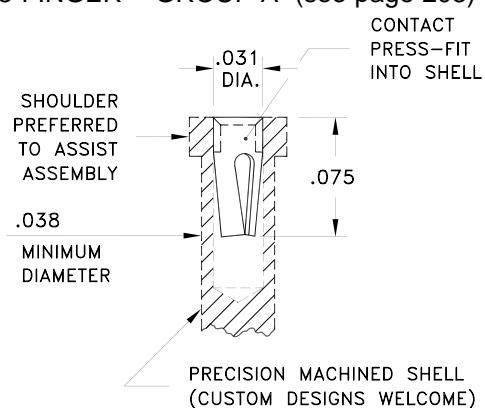
CONTACT MATERIAL:

BERYLLIUM COPPER Alloy 172, Heat Treated



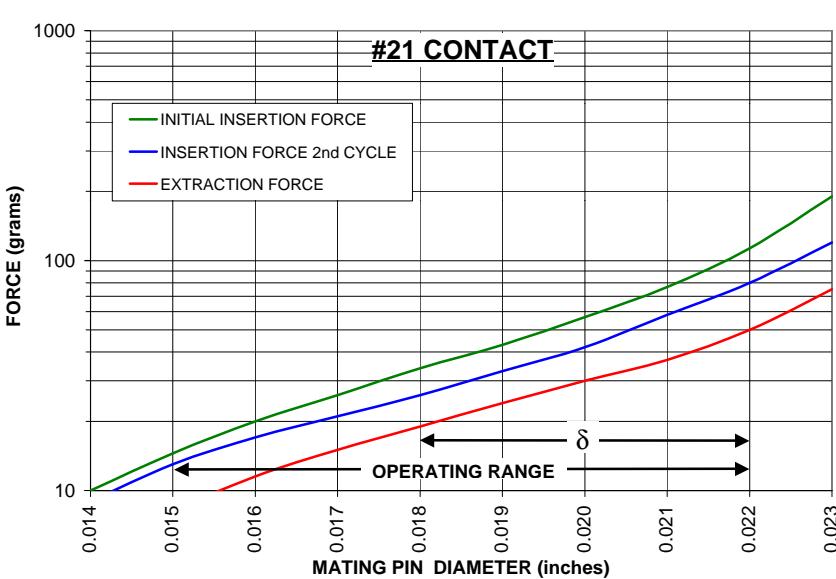
#21 CONTACT

FOR .015-.022 DIAMETER PINS ($\delta=.004$)
3-FINGER GROUP A (see page 203)



CONTACT MATERIAL:

BERYLLIUM COPPER Alloy 172, Heat Treated





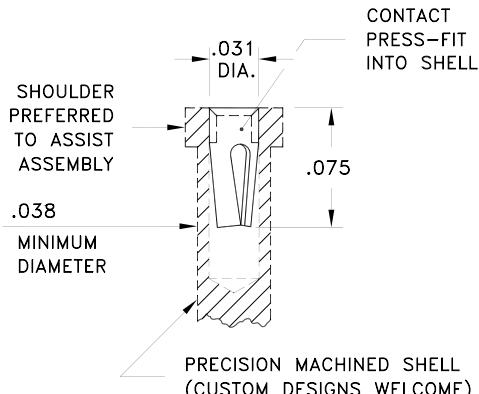
CONTACT DATA

Insertion / Extraction Force Graphs

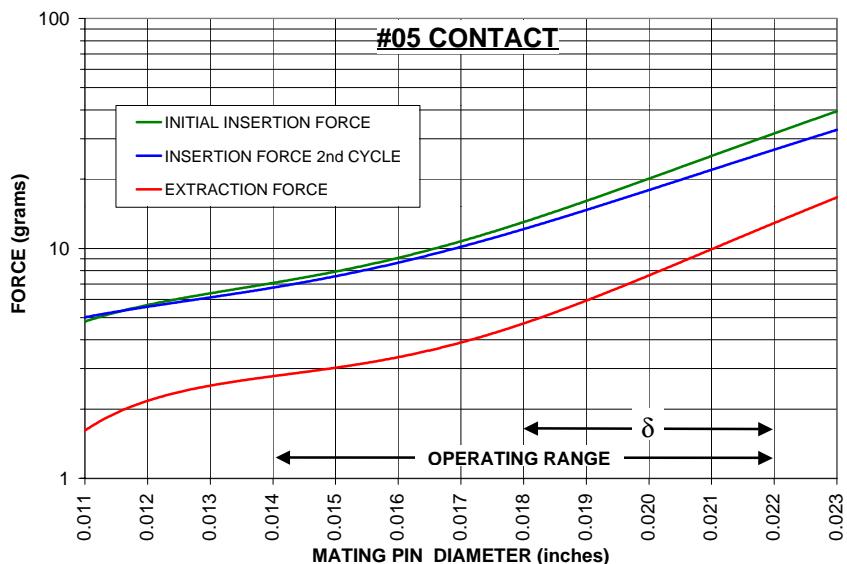


#05 CONTACT

FOR .015-.022 DIAMETER PINS ($\delta=.004$)
3-FINGER GROUP A (see page 203)

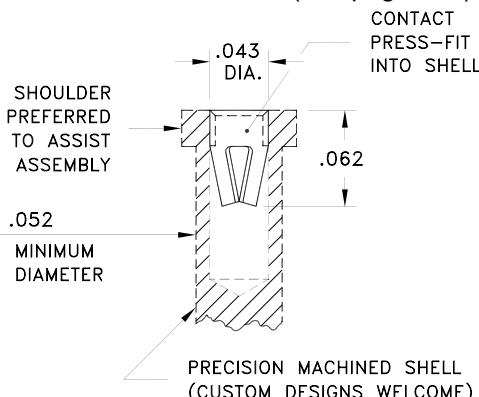


CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated

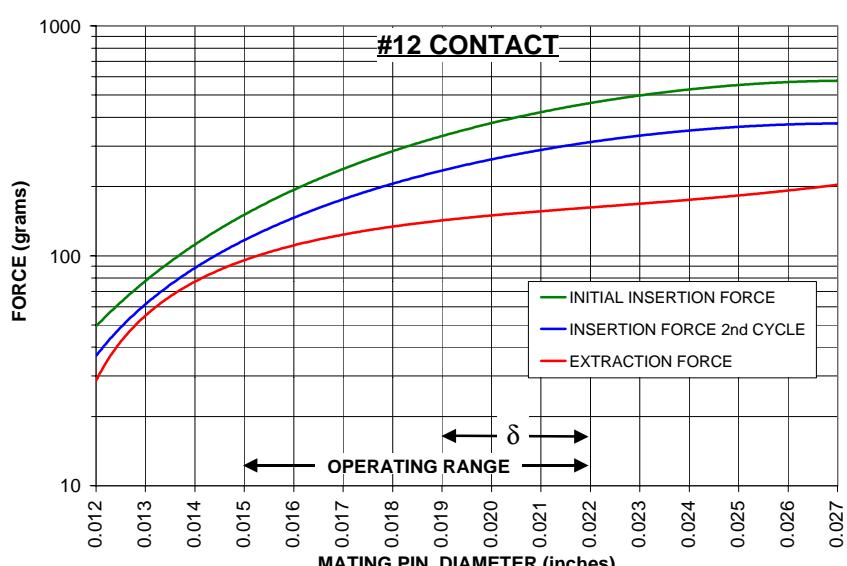


#12 CONTACT

FOR .015-.022 DIAMETER PINS ($\delta=.003$)
4-FINGER GROUP B (see page 203)

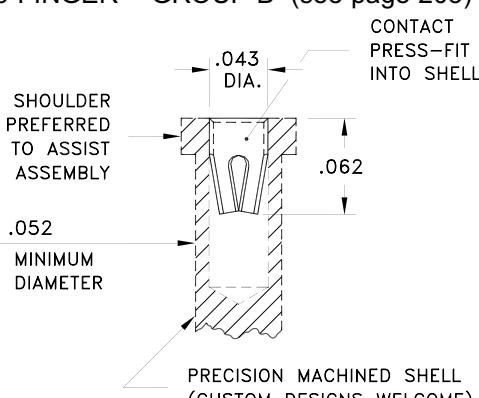


CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated

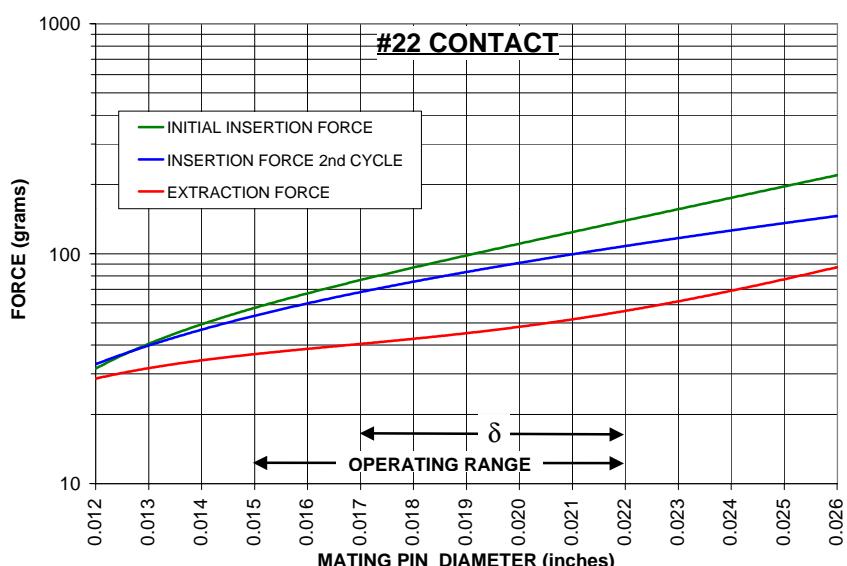


#22 CONTACT

FOR .015-.022 DIAMETER PINS ($\delta=.005$)
6-FINGER GROUP B (see page 203)



CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated





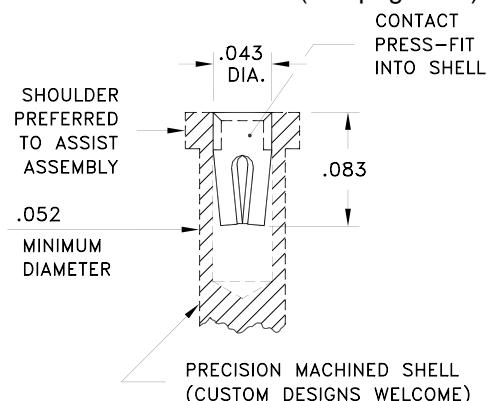
CONTACT DATA

Insertion / Extraction Force Graphs



#30 CONTACT

FOR .015-.025 DIAMETER PINS ($\delta=.005$)
4-FINGER GROUP C (see page 203)

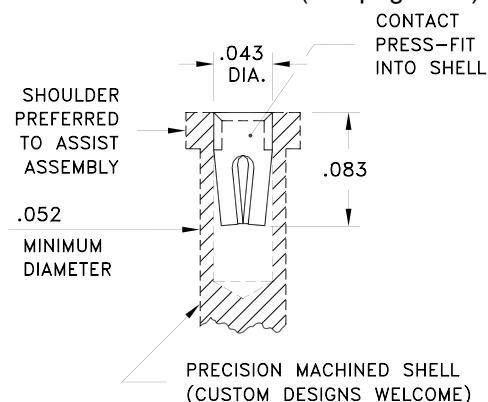


CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated



#38 CONTACT

FOR .015-.025 DIAMETER PINS ($\delta=.004$)
4-FINGER GROUP C (see page 203)

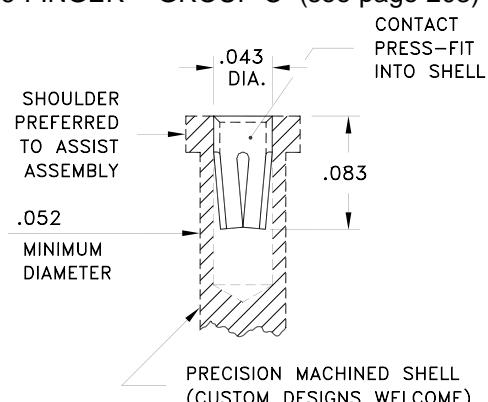


CONTACT MATERIAL:
BERYLLIUM NICKEL Alloy 440, Heat Treated

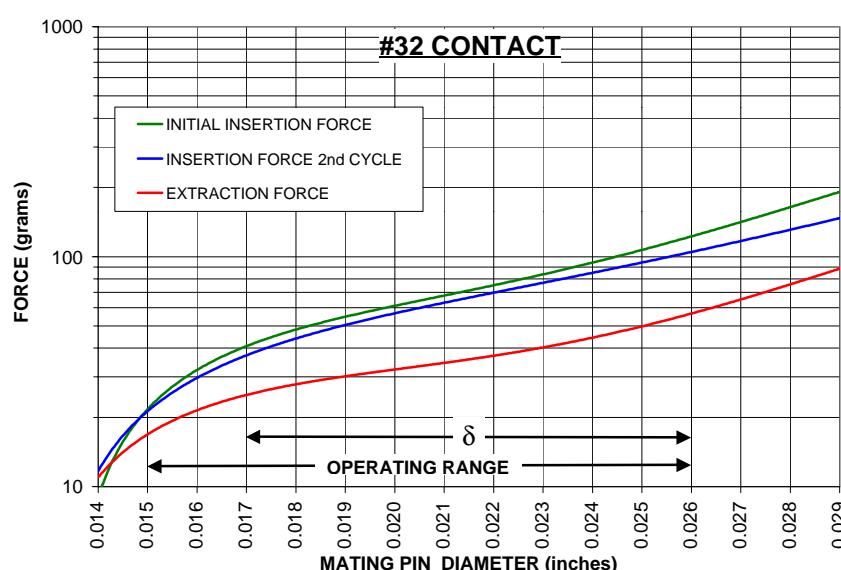


#32 CONTACT

FOR .015-.026 DIAMETER PINS ($\delta=.009$)
6-FINGER GROUP C (see page 203)



CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated





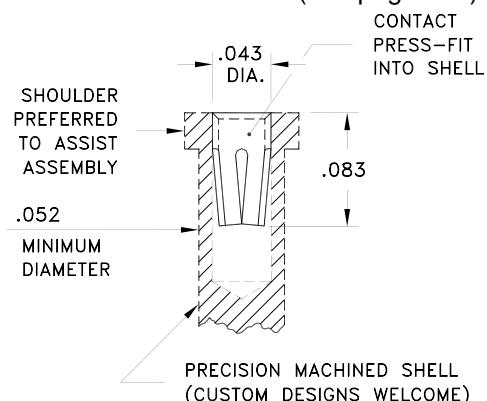
CONTACT DATA

Insertion / Extraction Force Graphs

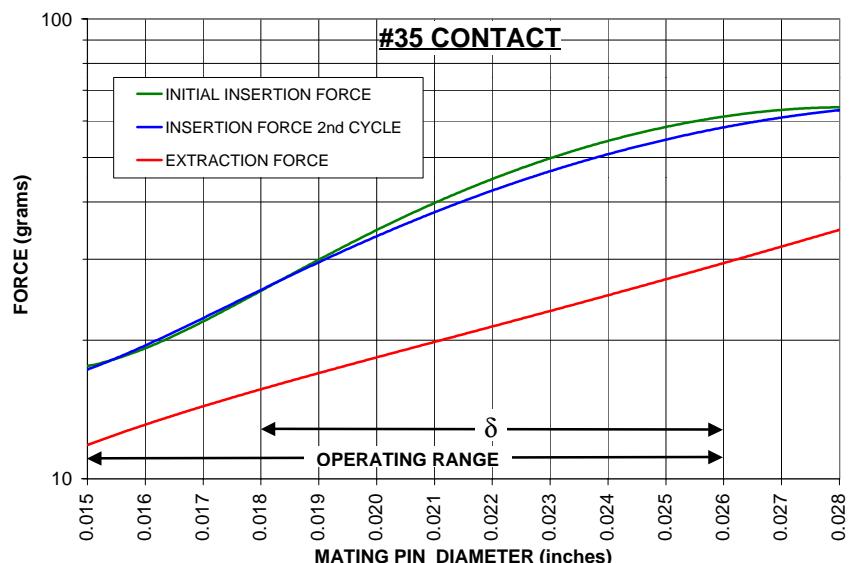


#35 CONTACT

FOR .015-.026 DIAMETER PINS ($\delta=.008$)
6-FINGER GROUP C (see page 203)

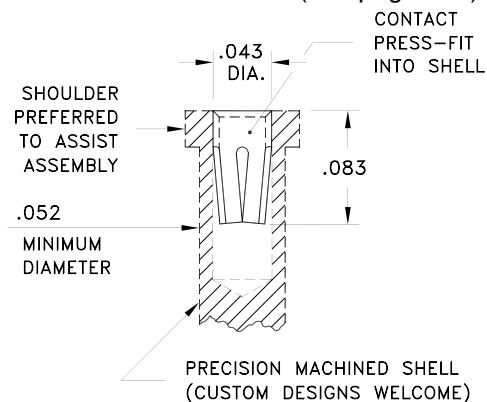


CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated

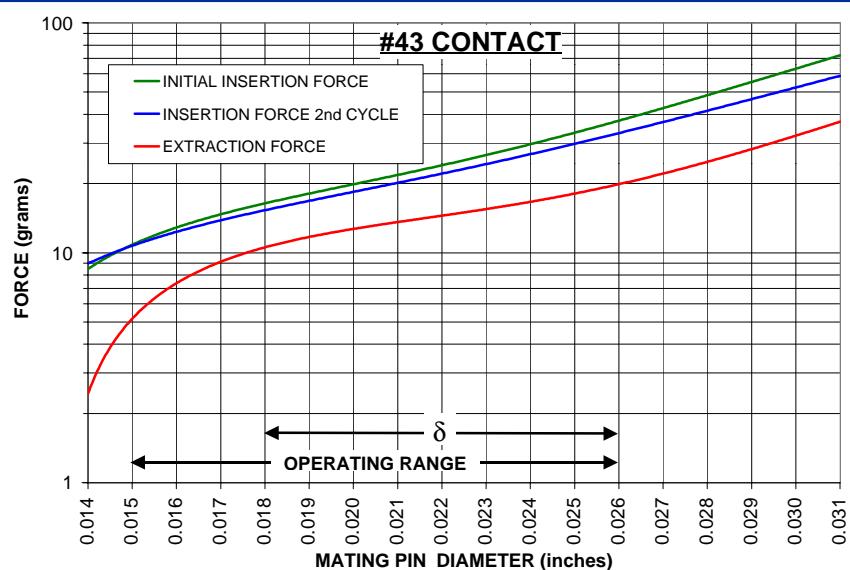


#43 CONTACT

FOR .015-.026 DIAMETER PINS ($\delta=.008$)
6-FINGER GROUP C (see page 203)

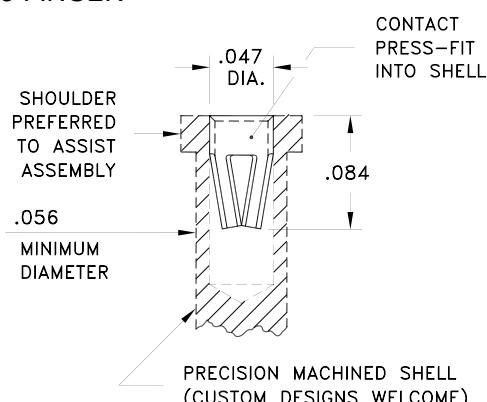


CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated

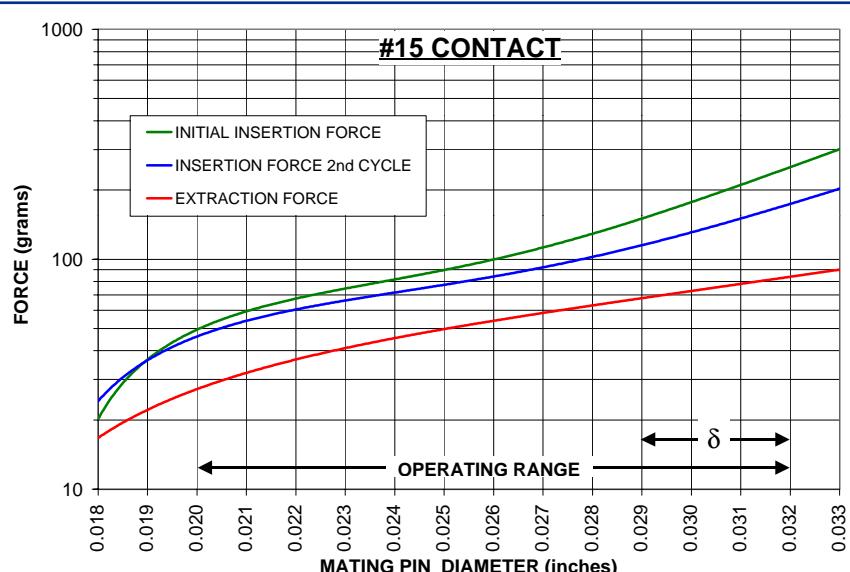


#15 CONTACT

FOR .022-.032 DIAMETER PINS ($\delta=.004$)
6-FINGER



CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated





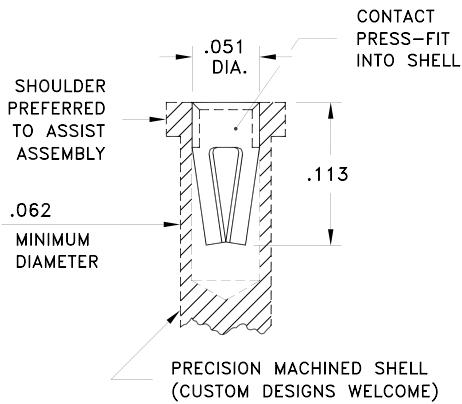
CONTACT DATA

Insertion / Extraction Force Graphs

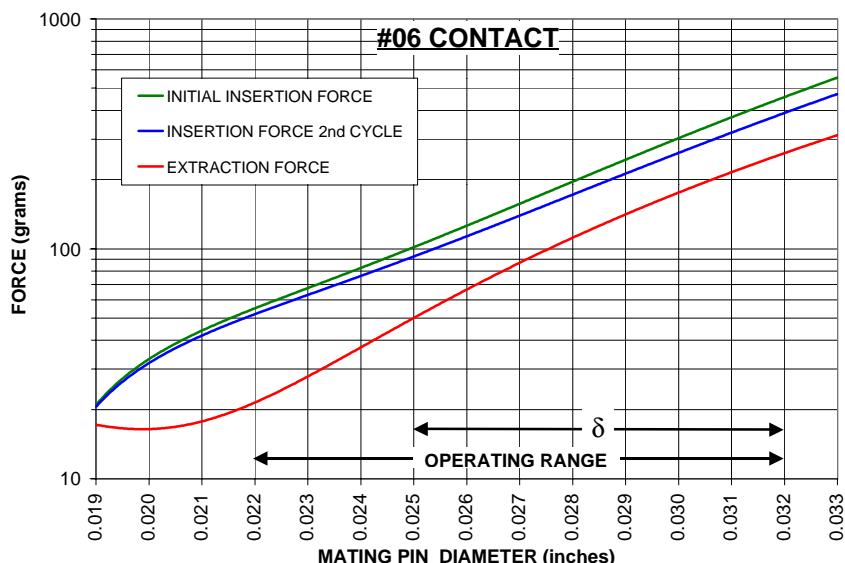


#06 CONTACT

FOR .022-.032 DIAMETER PINS ($\delta=.007$)
4-FINGER GROUP D (see page 203)

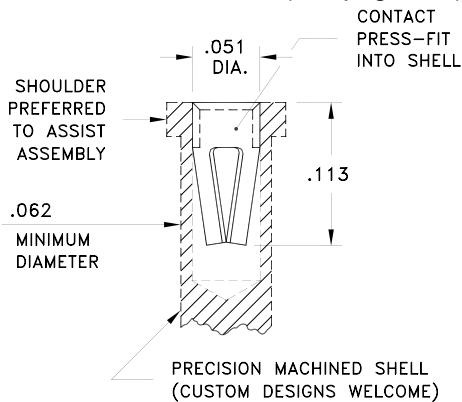


CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated

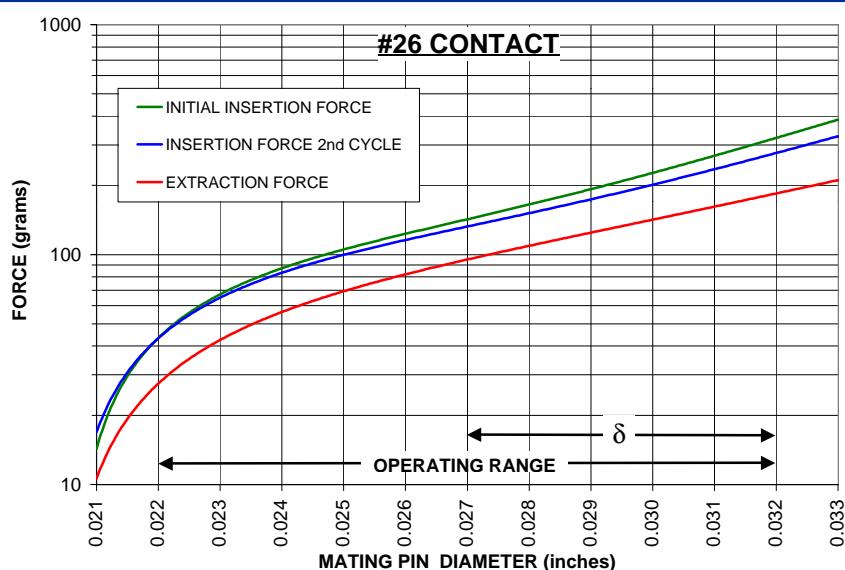


#26 CONTACT

FOR .022-.032 DIAMETER PINS ($\delta=.005$)
4-FINGER GROUP D (see page 203)

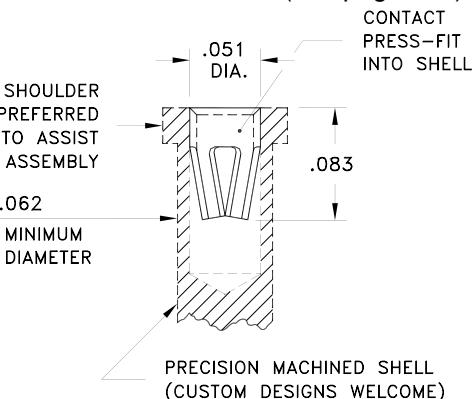


CONTACT MATERIAL:
BERYLLIUM NICKEL Alloy 440, Heat Treated

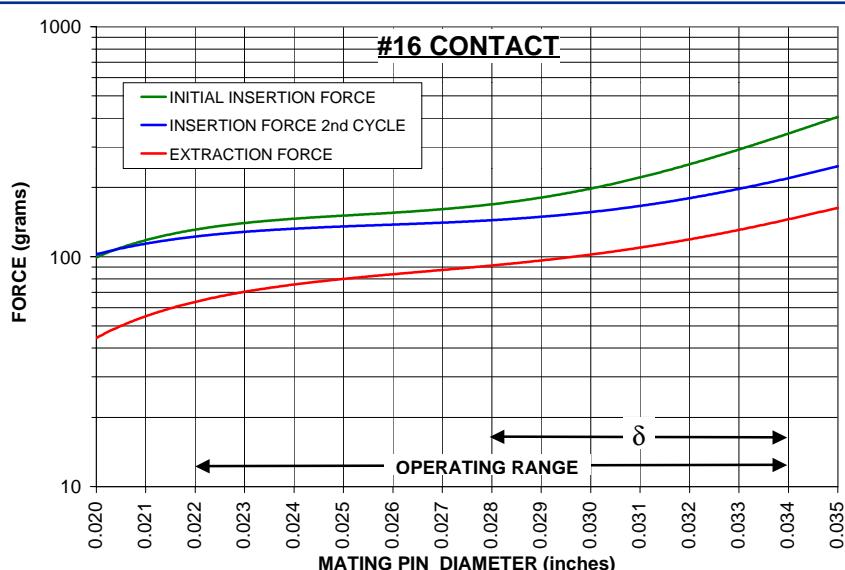


#16 CONTACT

FOR .022-.034 DIA. & .025 SQ. ($\delta=.006$)
6-FINGER GROUP D (see page 203)



CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated





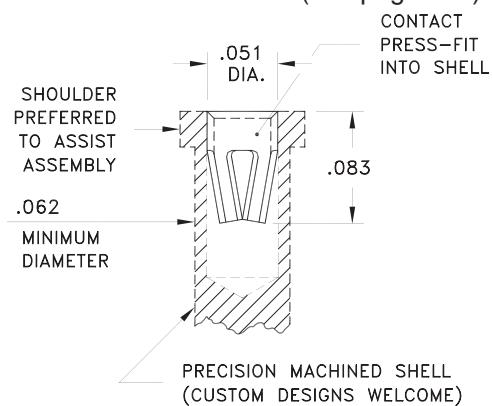
CONTACT DATA

Insertion / Extraction Force Graphs

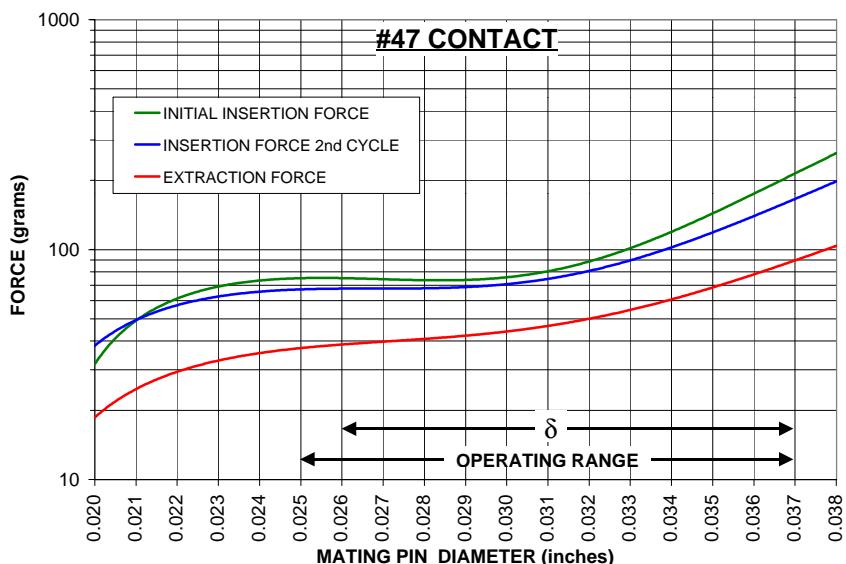


#47 CONTACT

FOR .025-.037 DIA. & .025 SQ. ($\delta=.011$)
6-FINGER GROUP D (see page 203)

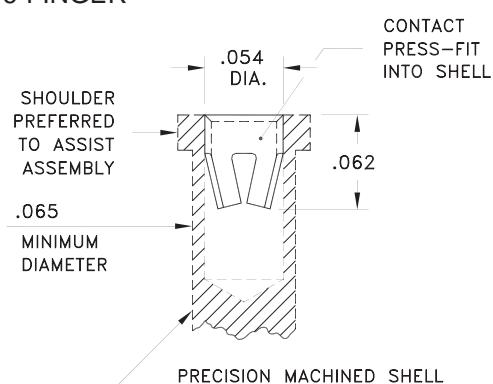


CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated

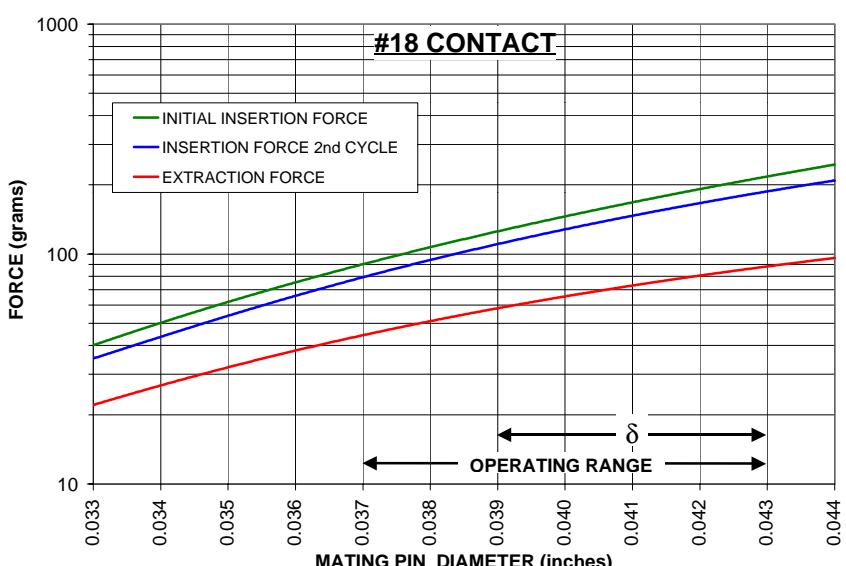


#18 CONTACT

FOR .037-.043 DIAMETER PINS ($\delta=.004$)
6-FINGER

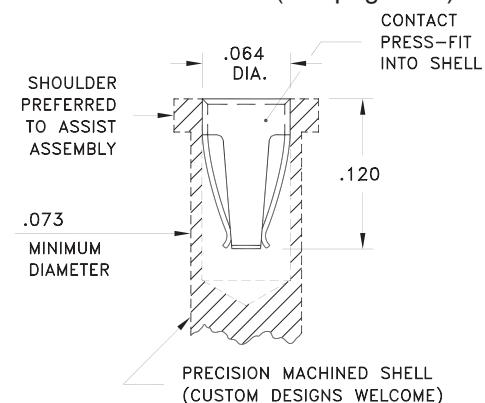


CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated

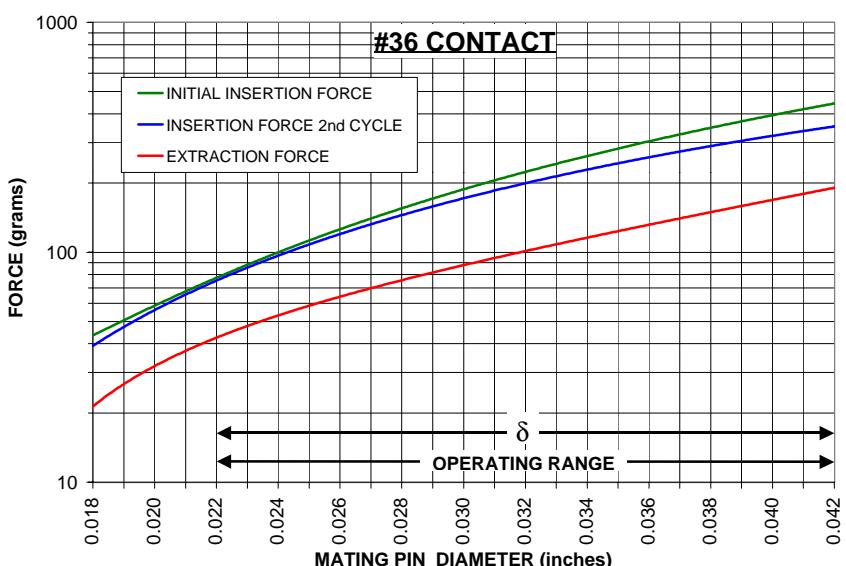


#36 CONTACT

FOR .022-.042 DIAMETER PINS ($\delta=.022$)
4-FINGER GROUP E (see page 203)



CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated





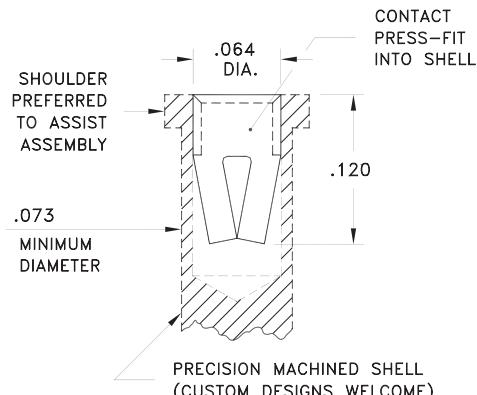
CONTACT DATA

Insertion / Extraction Force Graphs

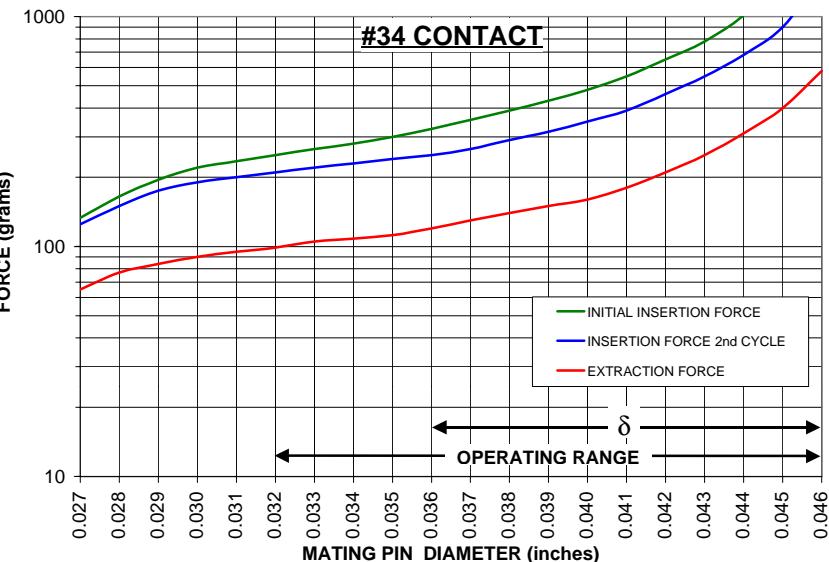


#34 CONTACT

FOR .032-.046 DIAMETER PINS ($\delta=.010$)
4-FINGER GROUP E (see page 203)

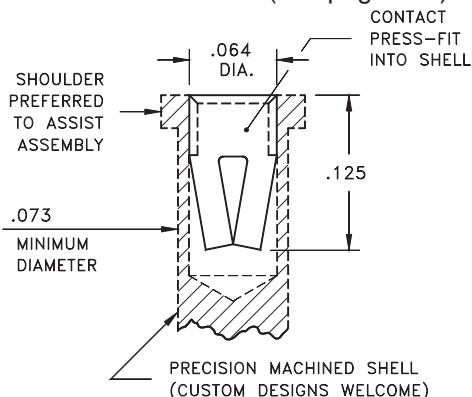


CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated

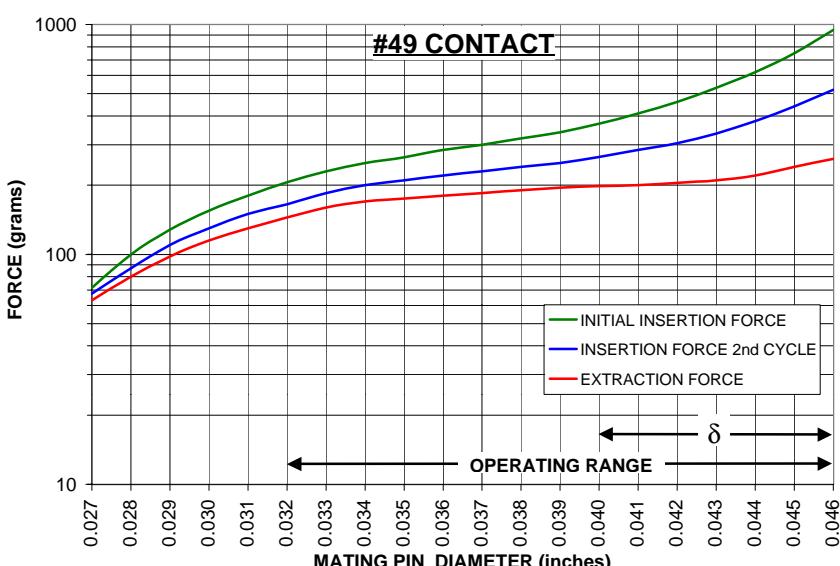


#49 CONTACT

FOR .032-.046 DIAMETER PINS ($\delta=.006$)
4-FINGER GROUP E (see page 203)

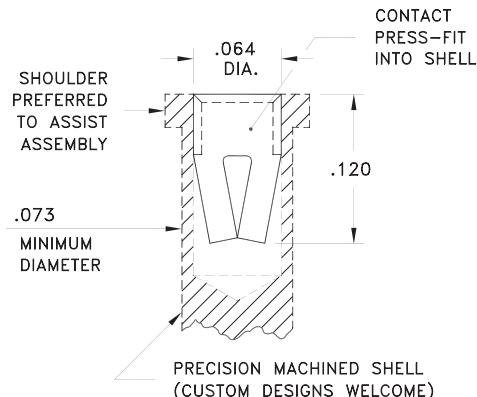


CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated

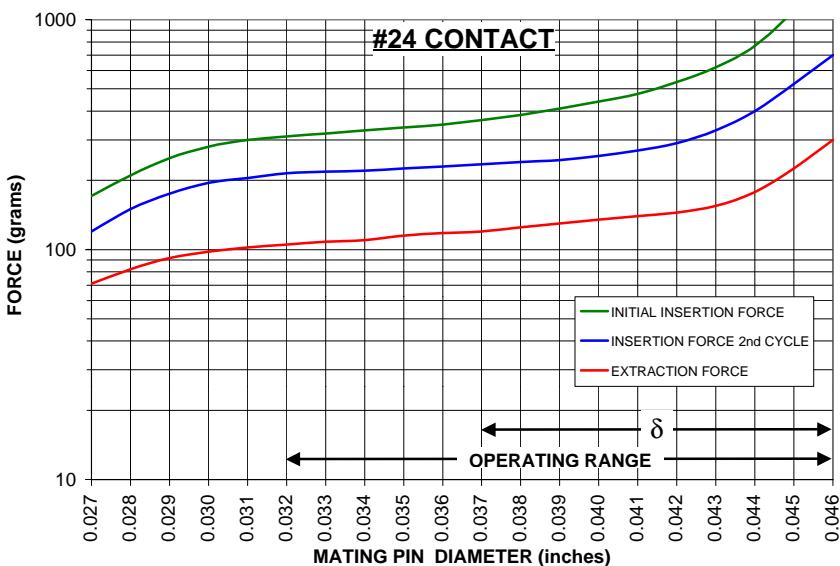


#24 CONTACT

FOR .032-.046 DIAMETER PINS ($\delta=.009$)
4-FINGER GROUP E (see page 203)



CONTACT MATERIAL:
BERYLLIUM NICKEL Alloy 440, Heat Treated





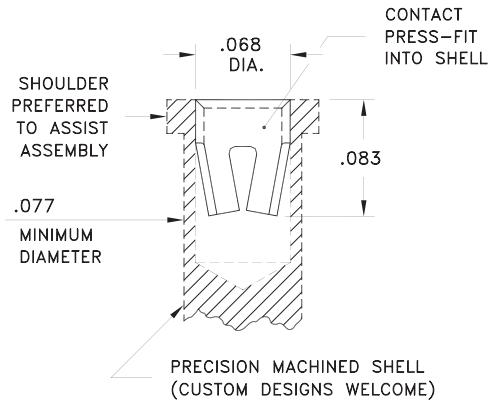
CONTACT DATA

Insertion / Extraction Force Graphs



#02 CONTACT

FOR .040-.050 DIAMETER PINS ($\delta=.006$)
6-FINGER GROUP F (see page 203)

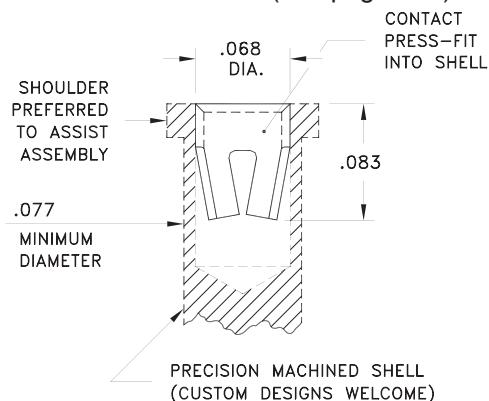


CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated

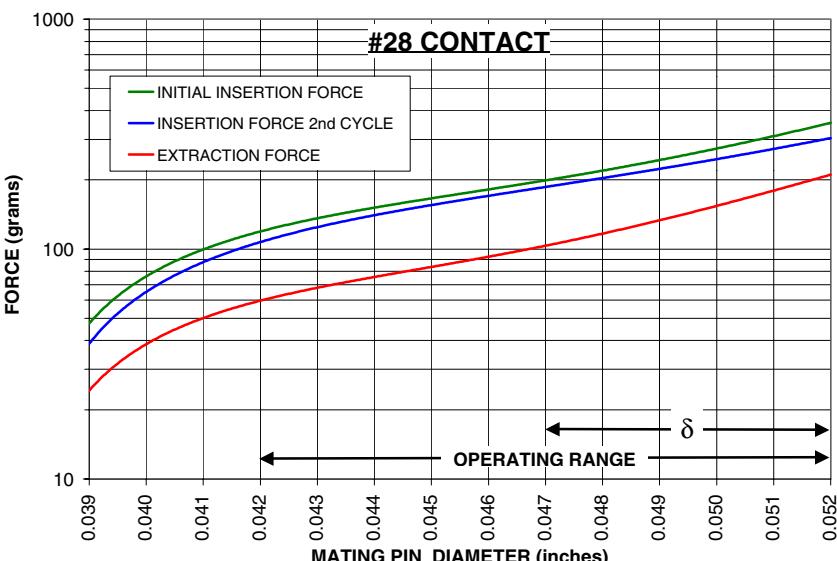


#28 CONTACT

FOR .042-.052 DIAMETER PINS ($\delta=.005$)
6-FINGER GROUP F (see page 203)

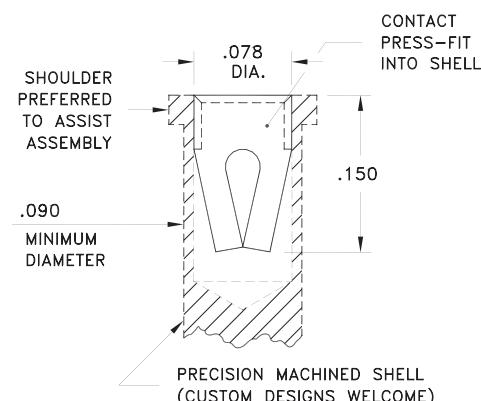


CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated

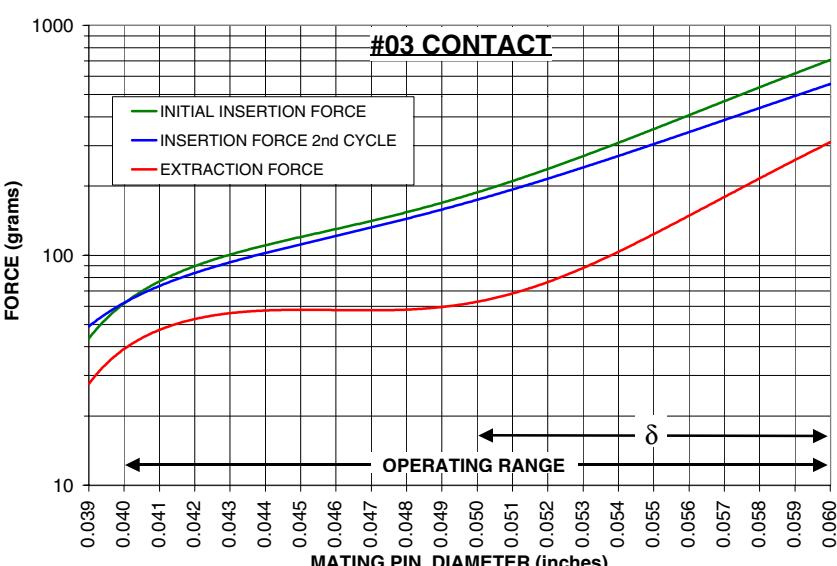


#03 CONTACT

FOR .040-.060 DIAMETER PINS ($\delta=.010$)
4-FINGER



CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated





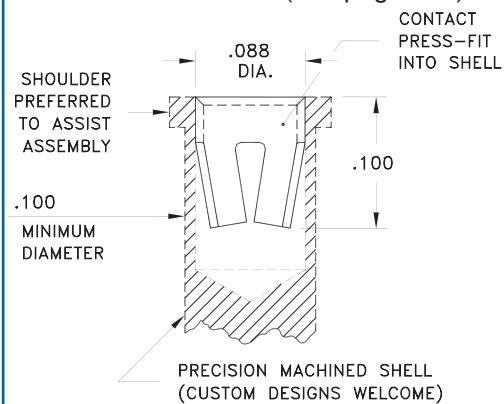
CONTACT DATA

Insertion / Extraction Force Graphs

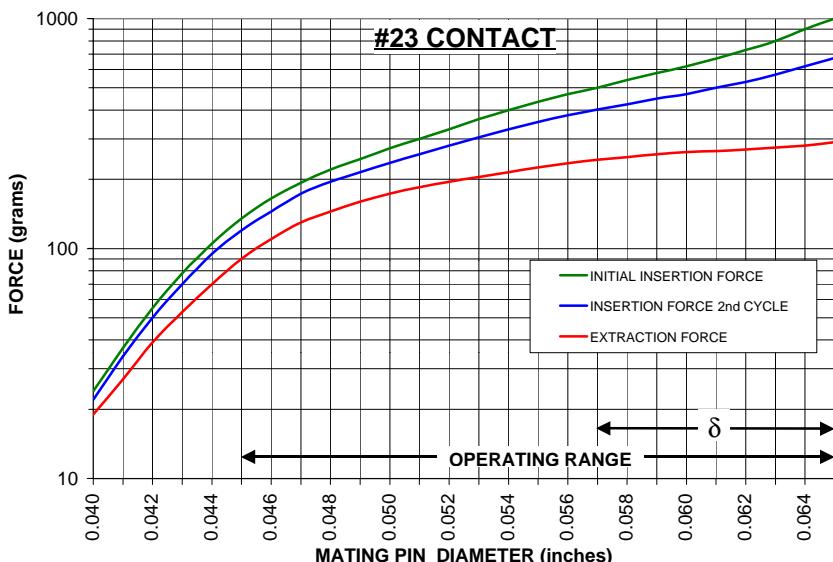


#23 CONTACT

FOR .045-.065 DIAMETER PINS ($\delta=.008$)
6-FINGER GROUP G (see page 203)

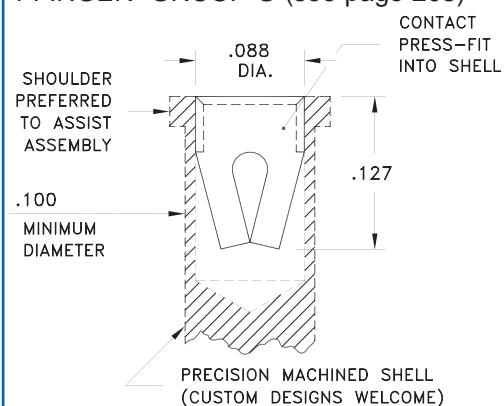


CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated

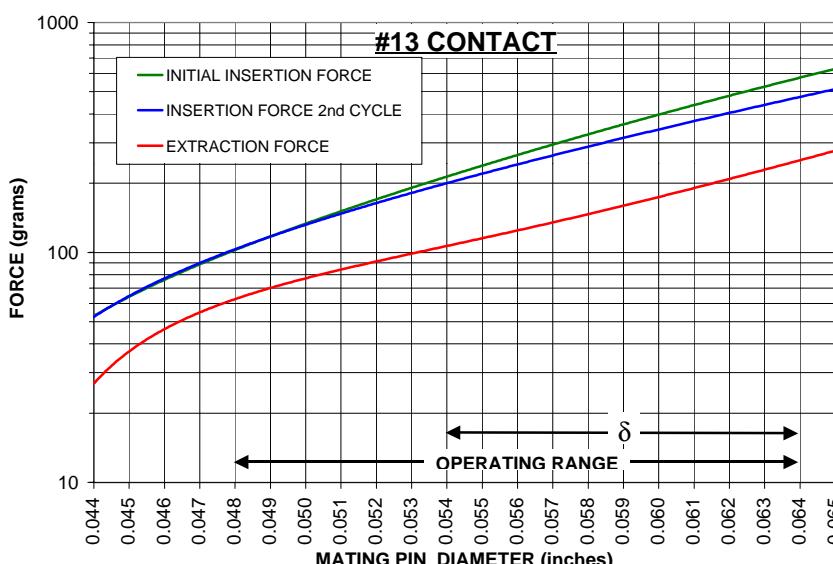


#13 CONTACT

FOR .048-.064 DIAMETER PINS ($\delta=.010$)
4-FINGER GROUP G (see page 203)

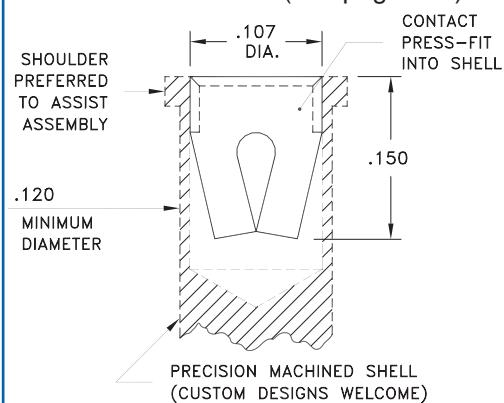


CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated

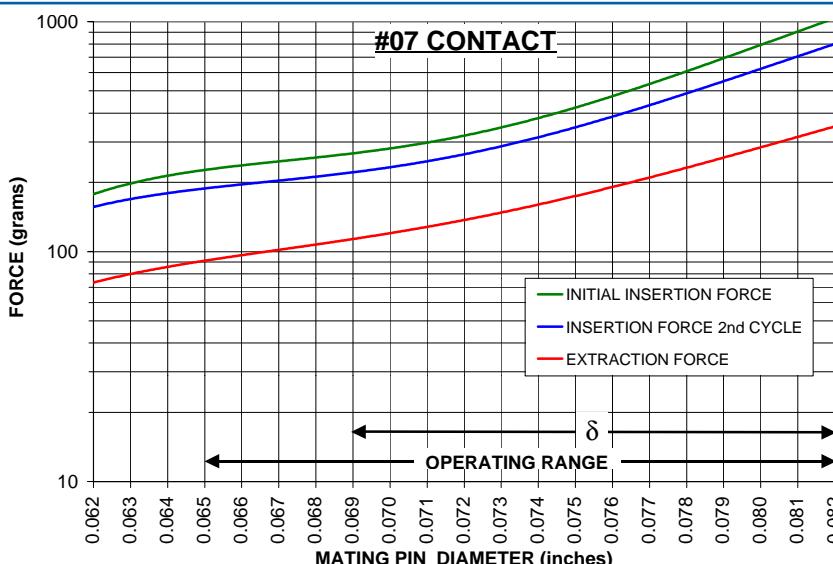


#07 CONTACT

FOR .065-.082 DIAMETER PINS ($\delta=.013$)
4-FINGER GROUP H (see page 203)



CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated





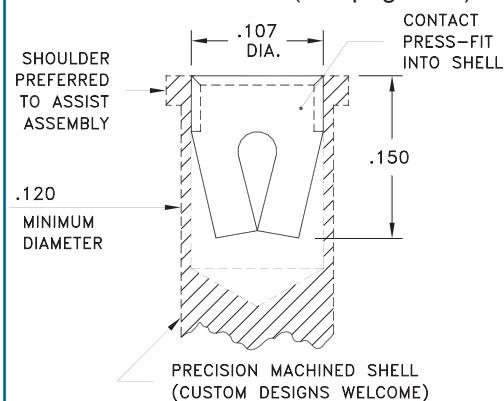
CONTACT DATA

Insertion / Extraction Force Graphs

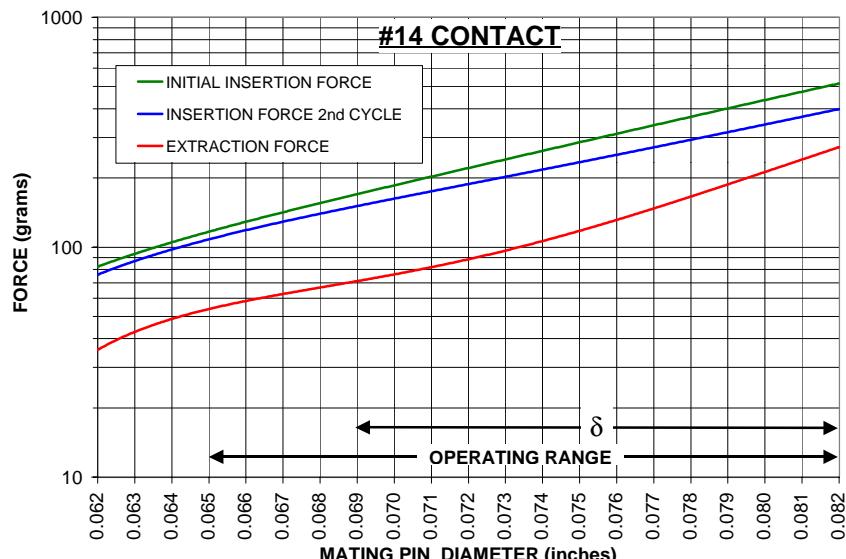


#14 CONTACT

FOR .065-.082 DIAMETER PINS ($\delta=.014$)
4-FINGER GROUP H (see page 203)

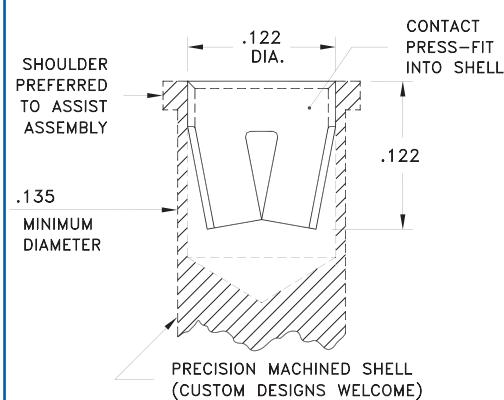


CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated

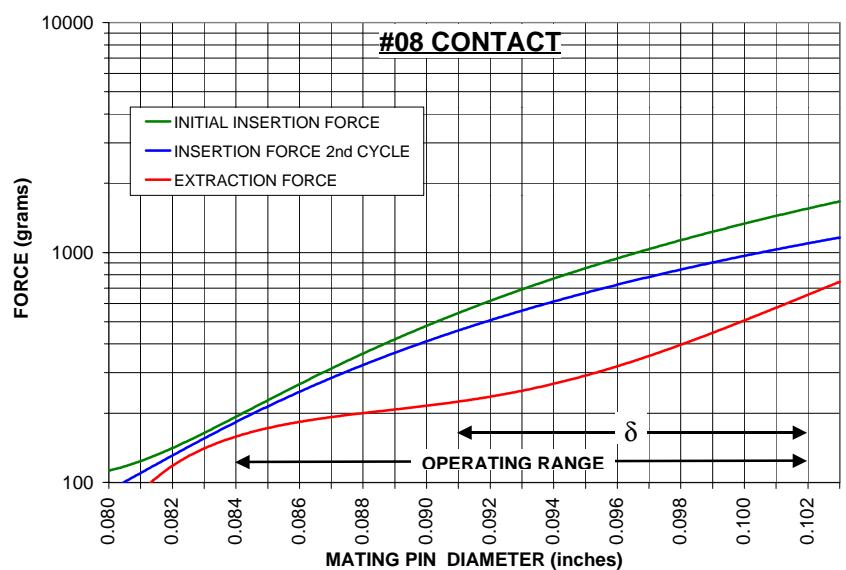


#08 CONTACT

FOR .084-.102 DIAMETER PINS ($\delta=.011$)
6-FINGER



CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated





CUSTOM PIN/RECEPTACLE WORKSHEET



PHOTOCOPY THIS PAGE AND FAX OR MAIL TO MILL-MAX FOR A PROMPT QUOTATION

FROM:

NAME _____ TITLE: _____

COMPANY _____ DATE: _____

ADDRESS _____ PHONE: _____

_____ FAX: _____

QUANTITIES TO QUOTE

SPECIFICATIONS OF MACHINED PINS, TERMINALS, RECEPTACLE SHELLS, etc.

SIMILAR MILL-MAX PART #: _____

MATERIAL: BRASS

PHOSPHOR BRONZE

(check available stock sizes on page 124)

FINISH: TIN over NICKEL

TIN/LEAD over COPPER

μ " GOLD over NICKEL

SILVER over COPPER

OTHER: _____

STANDARD MACHINING TOLERANCES ARE $\pm .002"$ FOR DIAMETERS,
 $\pm .005"$ FOR LENGTHS. IF TIGHTER TOLERANCES ARE REQUIRED,
PLEASE SPECIFY CRITICAL DIMENSIONS ON SKETCH BELOW.

ADDITIONAL SPECIFICATIONS FOR RECEPTACLE ONLY

SIZE OF MATING PIN OR
COMPONENT LEAD: _____
(round/square/rectangular)

LENGTH OF MATING PIN/LEAD: _____

USE MILL-MAX CONTACT TYPE #: _____
(see page 203 for selector chart)

REQUIRED INSERTION/
EXTRACTION FORCES: LOW MEDIUM HIGH

CONTACT FINISH: TIN over NICKEL

μ " GOLD over NICKEL

OTHER: _____

ARE THERE ANY UNUSUAL REQUIREMENTS SUCH AS HIGH
OPERATING TEMPERATURE OR CURRENT RATING?

IF YOU NEED ASSISTANCE, PLEASE CALL MILL-MAX AND ASK FOR AN APPLICATIONS ENGINEER



INDEX
**NUMERICAL LISTING AND LOCATION OF MILL-MAX ASSEMBLY
 NUMBERS WITH REFERENCE TO MILL-MAX PINS**

MILL-MAX ASSEMBLY NUMBER	MILL-MAX PIN REF	PAGE	MILL-MAX ASSEMBLY NUMBER	MILL-MAX PIN REF	PAGE
101-XX-XXX-41-56X	1001/1056	18	151-XX-XXX-00-005	5505-0	41
101-XX-XXX-41-56X100	1001/1056	18	151-XX-XXX-00-009	5509-0	42
104-XX-XXX-41-770	0477-0	19	151-XX-XXX-00-010	5510-0	42
104-XX-XXX-41-770100	0477-0	19	151-XX-XXX-00-011	5511-0	42
104-XX-XXX-41-780	0478-0	19	153-XX-XXX-00-001	5301-0	37
104-XX-XXX-41-780100	0478-0	19	153-XX-XXX-00-001100	5301-0	37
110-90-XXX-00-000	N/A	13	160-XX-XXX-00-001	0282-0	38
110-93-314-10-001	1001-0	86	162-XX-XXX-00-001	1106-2	38
110-93-314-10-002	1001-0	86	163-XX-XXX-00-001	1106-3	38
110-93-316-10-003	1001-0	86	170-XX-XXX-00-001	0700-0	39
110-XX-XXX-41-001	1001-0	11	170-XX-XXX-00-001100	0700-0	39
110-XX-XXX-41-001100	1001-0	11	173-XX-XXX-00-001	0730-3	39
110-XX-XXX-41-105	1005-0	25	173-XX-XXX-00-001100	0730-3	39
110-XX-XXX-41-361	1001-0	11	180-XX-XXX-00-001	8000-0	40
110-XX-XXX-41-530	1001-0	12	182-XX-XXX-00-001	8301-2	40
110-XX-XXX-41-605	1005-0	17	183-XX-XXX-00-001	8301-3	40
110-XX-XXX-41-801	1001-0	21	210-XX-XXX-41-001	1001-0	22
111-XX-XXX-41-001	0134-0	14	210-XX-XXX-41-001100	1001-0	22
111-XX-XXX-41-001100	0134-0	14	210-XX-XXX-41-101	1001-0	23
114-XX-XXX-41-117	1434-0	26	214-XX-XXX-01-670799	1434-0	27
115-XX-XXX-41-001	0501-0	15	214-XX-XXX-01-670800	1434-0	27
115-XX-XXX-41-001100	0501-0	15	217-93-764-41-005	1802-0	87
115-XX-XXX-41-003	0703-0	16	222-XX-XXX-41-001	0089-2	22
115-XX-XXX-41-003100	0703-0	16	222-XX-XXX-41-001100	0089-2	22
116-XX-XXX-41-001	0153-5	30	223-XX-XXX-41-001	0088-3	22
116-XX-XXX-41-003	0153-2	30	223-XX-XXX-41-001100	0088-3	22
116-XX-XXX-41-006	0153-1	30	223-XX-XXX-41-101	0038-3	24
116-XX-XXX-41-007	0153-3	30	227-93-764-41-002	1702-2	87
116-XX-XXX-41-008	0153-4	30	227-93-764-41-003	1703-3	87
117-93-XXX-41-005	1802-0	87	299-XX-XXX-10-001	1103/0903	31
121-XX-XXX-41-001	0040-1	28	299-XX-XXX-10-002	1103/0904	31
122-XX-XXX-41-001	0089-2	28	299-XX-XXX-11-001	1103/1610	31
122-XX-XXX-41-801	0089-2	21	299-99-210-12-001800	1002-X	86
123-XX-XXX-41-001	0088-3	28	304-XX-XXX-41-770	0477-0	48
123-XX-XXX-41-801	0088-3	21	304-XX-XXX-41-780	0478-0	48
124-XX-XXX-41-002	0086-4	28	310-XX-XXX-41-001	1001-0	46,75
126-XX-XXX-41-001	2601-0	29	310-XX-XXX-41-001100	1001-0	46,75
126-XX-XXX-41-002	2602-0	29	310-XX-XXX-41-105	1005-0	78
126-XX-XXX-41-003	2603-0	29	311-XX-XXX-41-001	0134-0	46
127-93-XXX-41-002	1702-2	87	311-XX-XXX-41-001100	0134-0	46
127-93-XXX-41-003	1703-3	87	315-XX-XXX-41-001	0501-0	46
134-XX-XXX-00-000	3400-0	43	315-XX-XXX-41-001100	0501-0	46
134-XX-XXX-00-010	3401-0	43	315-XX-XXX-41-003	0703-0	46
134-XX-XXX-00-020	3402-0	43	315-XX-XXX-41-003100	0703-0	46
134-XX-XXX-00-050	3405-0	43	316-XX-XXX-41-001	0153-5	47
134-XX-XXX-00-100	3410-0	43	316-XX-XXX-41-001100	0153-5	47
142-XX-XXX-00-591	4259-1	44	316-XX-XXX-41-003	0153-2	47
142-XX-XXX-00-591100	4259-1	44	316-XX-XXX-41-003100	0153-2	47
142-XX-XXX-00-592	4259-2	44	316-XX-XXX-41-006	0153-1	47
142-XX-XXX-00-592100	4259-2	44	316-XX-XXX-41-006100	0153-1	47
142-XX-XXX-00-593	4259-3	44	316-XX-XXX-41-007	0153-3	47
142-XX-XXX-00-593100	4259-3	44	316-XX-XXX-41-007100	0153-3	47
142-XX-XXX-00-594	4259-4	44	316-XX-XXX-41-008	0153-4	47
142-XX-XXX-00-594100	4259-4	44	316-XX-XXX-41-008100	0153-4	47
146-XX-XXX-41-012	4612-0	20	317-93-XXX-41-005	1802-0	87
146-XX-XXX-41-013	4613-0	20	321-XX-XXX-41-001	0040-1	49
150-XX-XXX-00-001	0290-0	37	322-XX-XXX-41-001	0089-2	49
150-XX-XXX-00-001100	0290-0	37	323-XX-XXX-41-001	0088-3	49
151-XX-XXX-00-003	5503-0	41	324-XX-XXX-41-002	0086-4	49
151-XX-XXX-00-004	5504-0	41	326-XX-XXX-41-001	2601-0	50



INDEX

**NUMERICAL LISTING AND LOCATION OF MILL-MAX ASSEMBLY
NUMBERS WITH REFERENCE TO MILL-MAX PINS**

MILL-MAX ASSEMBLY NUMBER	MILL-MAX PIN REF	PAGE	MILL-MAX ASSEMBLY NUMBER	MILL-MAX PIN REF	PAGE
326-XX-XXX-41-002	2602-0	50	416-XX-XXX-41-006	0153-1	52
326-XX-XXX-41-003	2603-0	50	416-XX-XXX-41-006100	0153-1	52
327-93-XXX-41-002	1702-2	87	416-XX-XXX-41-007	0153-3	52
327-93-XXX-41-003	1703-3	87	416-XX-XXX-41-007100	0153-3	52
334-XX-XXX-00-000	3400-0	60	416-XX-XXX-41-008	0153-4	52
334-XX-XXX-00-010	3401-0	60	416-XX-XXX-41-008100	0153-4	53
334-XX-XXX-00-020	3402-0	60	421-XX-XXX-41-001	0040-1	53
334-XX-XXX-00-050	3405-0	60	422-XX-XXX-41-001	0089-2	53
334-XX-XXX-00-100	3410-0	60	423-XX-XXX-41-001	0088-3	53
335-XX-XXX-00-160	3516-0	77	424-XX-XXX-41-002	0086-4	53
342-XX-XXX-00-591	4259-1	61	426-XX-XXX-41-001	2601-0	54
342-XX-XXX-00-591100	4259-1	61	426-XX-XXX-41-002	2602-0	54
342-XX-XXX-00-592	4259-2	61	426-XX-XXX-41-003	2603-0	54
342-XX-XXX-00-592100	4259-2	61	435-XX-XXX-00-160	3516-0	77
342-XX-XXX-00-593	4259-3	61	442-XX-XXX-00-591	4259-1	67
342-XX-XXX-00-593100	4259-3	61	442-XX-XXX-00-591100	4259-1	67
342-XX-XXX-00-594	4259-4	61	442-XX-XXX-00-592	4259-2	67
342-XX-XXX-00-594100	4259-4	61	442-XX-XXX-00-592100	4259-2	67
346-XX-XXX-41-012	4612-0	48	442-XX-XXX-00-593	4259-3	67
346-XX-XXX-41-013	4613-0	48	442-XX-XXX-00-594	4259-4	67
350-XX-XXX-00-001	0290-0	62	442-XX-XXX-00-594100	4259-4	67
350-XX-XXX-00-001100	0290-0	62	446-XX-XXX-41-012	4612-0	55
350-XX-XXX-00-006	3404-0	75	446-XX-XXX-41-013	4613-0	55
350-XX-XXX-00-106	3404-0	78	450-XX-XXX-00-001	0290-0	64
351-XX-XXX-00-003	5503-0	59	450-XX-XXX-00-006	3404-0	76
351-XX-XXX-00-004	5504-0	59	450-XX-XXX-00-106	3404-0	78
351-XX-XXX-00-005	5505-0	59	451-XX-XXX-00-003	5503-0	66
351-XX-XXX-00-009	5509-0	59	451-XX-XXX-00-004	5504-0	66
351-XX-XXX-00-010	5510-0	59	451-XX-XXX-00-005	5505-0	66
351-XX-XXX-00-011	5511-0	59	451-XX-XXX-00-009	5509-0	66
353-XX-XXX-00-001	5301-0	63	451-XX-XXX-00-010	5510-0	66
360-XX-XXX-00-001	0282-0	62	451-XX-XXX-00-011	5511-0	66
360-XX-XXX-00-001100	0282-0	62	453-XX-XXX-00-001	5301-0	65
362-XX-XXX-00-001	1106-2	63	460-XX-XXX-00-001	0282-0	64
363-XX-XXX-00-001	1106-3	63	460-XX-XXX-00-001100	0282-0	64
364-XX-XXX-00-580	6458-0	77	463-XX-XXX-00-001	1106-3	65
370-XX-XXX-00-001	0700-0	62	464-XX-XXX-00-580	6458-0	77
370-XX-XXX-00-001100	0700-0	62	470-XX-XXX-00-001	0700-0	64
373-XX-XXX-00-001	0730-3	63	470-XX-XXX-00-001100	0700-0	64
380-XX-XXX-00-001	8000-0	62	473-XX-XXX-00-001	0730-3	65
380-XX-XXX-00-001100	8000-0	62	480-XX-XXX-00-001	8000-0	64
382-XX-XXX-00-001	8301-2	63	480-XX-XXX-00-001100	8000-0	64
383-XX-XXX-00-001	8301-3	63	483-XX-XXX-00-001	8301-3	65
395-XX-101-34-34X	8993-0	89	499-XX-XXX-10-003	1103/1602	76
395-XX-101-07-35X	8994-0	89	499-XX-XXX-10-009	5011/5113	76
395-XX-101-03-38X	8433	89	507-10-XXX-XX-XXX437	0737	105
399-XX-XXX-10-003	1103-0	75	510-XX-XXX-XX-XXX00X	1001-0	98
399-XX-XXX-10-009	5011-0	75	511-XX-XXX-XX-XXX00X	0134-0	98
410-93-XXX-10-001	1001-0	86	513-XX-XXX-XX-XXX085	1385-0	105
410-93-XXX-10-002	1001-0	86	514-XX-XXX-XX-XXX034	1434-0	102
410-XX-XXX-41-001	1001-0	51,76	515-XX-XXX-XX-XXX00X	0501-0	98
410-XX-XXX-41-001100	1001-0	51,76	518-XX-XXX-XX-XXX00X	180X-0	103
410-XX-XXX-41-105	1005-0	78	522-XX-XXX-XX-XXX00X	0089-2	99
411-XX-XXX-41-001	0134-0	51	523-XX-XXX-XX-XXX00X	0083-3	99
411-XX-XXX-41-001100	0134-0	51	540-99-XXX-17-400X0X	N/A	95
415-XX-XXX-41-001	0501-0	51	540-99-XXX-24-000	N/A	94
415-XX-XXX-41-001100	0501-0	51	550-X0-XXX-XX-XXX012	5012	104
415-XX-XXX-41-003	0703-0	51	551-XX-XXX-XX-XXX003	5503-0	101
415-XX-XXX-41-003100	0703-0	51	551-XX-XXX-XX-XXX004	5504-0	101
416-XX-XXX-41-001	0153-5	52	551-XX-XXX-XX-XXX005	5505-0	101
416-XX-XXX-41-001100	0153-5	52	582-11-XXX-XX-XXX414	8214	112
416-XX-XXX-41-003	0153-2	52	587-10-XXX-XX-XXX437	8737	112
416-XX-XXX-41-003100	0153-2	52	594-99-020-01-007032	8857-X	88



INDEX
**NUMERICAL LISTING AND LOCATION OF MILL-MAX ASSEMBLY
NUMBERS WITH REFERENCE TO MILL-MAX PINS**

MILL-MAX ASSEMBLY NUMBER	MILL-MAX PIN REF	PAGE	MILL-MAX ASSEMBLY NUMBER	MILL-MAX PIN REF	PAGE
599-XX-XXX-XXX476	9976-0	102	852-XX-XXX-10-001	3006-0	70
605-XX-XXX-11-480	0548-0	34	852-XX-XXX-20-001	4006-1/2	71
605-XX-XXX-XX-XXX048	0548-0	100	852-XX-XXX-30-001	4006-0	72
612-XX-XXX-41-001	0255-0	32	853-XX-XXX-10-001	0489-0	70
614-XX-XXX-31-007	1407-0	34	853-XX-XXX-20-001	0489-1/2	71
614-XX-XXX-31-012	0552-1	35	853-XX-XXX-30-001	0489-0	72
614-XX-XXX-31-018	0552-2	35	860-XX-XXX-10-001		69
614-XX-XXX-41-001	1401-0	33	8604-5450	TOOL	96
614-XX-XXX-XX-XXX0XX	1401-0	100	861-XX-XXX-10-001	N/A	69
614-XX-XXX-XX-XXX007	1407-0	100	862-XX-XXX-10-001	N/A	69
614-XX-XXX-XX-XXX012	0552-1	100	863-XX-XXX-10-001	N/A	69
694-XX-XXX-00-670	0552-1	36	890-XX-XXX-XX-XXX	N/A	85
694-XX-XXX-00-671	0442-0	36	892-XX-XXX-XX-XXX	N/A	85
694-XX-XXX-00-672	0255-0	36	89X-30-00X-X0-000	N/A	90
694-XX-XXX-00-673	0552-2	36	917-XX-XXX-41-005	1705-0	88
694-XX-XXX-00-674	1401	36	940-99-XXX-17-40X00X	N/A	93
694-XX-XXX-00-675	8855	36	940-99-XXX-24-00X	N/A	92
694-XX-XXX-00-676	0135	36	999-11-XXX-XX-000	N/A	91
694-XX-XXX-00-677	0132	36	999-XX-X10-XX-000	N/A	91
694-XX-XXX-00-678	0548	36			
712-XX-XXX-41-001	0255-0	56			
714-XX-XXX-31-007	1407-0	57			
714-XX-XXX-31-012	0552-1	58			
714-XX-XXX-31-018	0552-2	58			
714-XX-XXX-41-001	1401-0	57			
800-XX-XXX-10-001	7007-0	79			
800-XX-XXX-10-002	5016-0	81			
800-XX-XXX-20-001	5005-0	79			
800-XX-XXX-61-001	5601-0	83			
800-XX-XXX-62-001	5602-0	83			
801-XX-XXX-10-001	1304-0	79			
801-XX-XXX-10-002	1303-0	81			
801-XX-XXX-10-004	1313-0	82			
801-XX-XXX-10-012	1303-0	81			
801-XX-XXX-20-001	1305-0	79			
801-XX-XXX-61-001	4614-0	83			
801-XX-XXX-62-001	4615-0	83			
802-XX-XXX-10-001	7007-0	80			
802-XX-XXX-10-002	5016-0	81			
802-XX-XXX-20-001	5005/5107	80			
802-XX-XXX-61-001	5601-0	84			
802-XX-XXX-62-001	5602-0	84			
803-XX-XXX-10-001	1304-0	80			
803-XX-XXX-10-002	1303-0	81			
803-XX-XXX-10-004	1313-0	82			
803-XX-XXX-20-001	1305/1306	80			
803-XX-XXX-61-001	4614-0	84			
803-XX-XXX-62-001	4615-0	84			
828-01-010	TOOL	103/112			
830-XX-XXX-10-001	5012-0	73			
830-XX-XXX-30-001	6218-0	74			
831-XX-XXX-10-001	1802-0	73			
831-XX-XXX-30-001	1802-0	74			
832-XX-XXX-10-001	5012-0	73			
832-XX-XXX-30-001	6218-0	74			
833-XX-XXX-10-001	1802-0	73			
833-XX-XXX-30-001	1802-0	74			
850-XX-XXX-10-001	3006-0	70			
850-XX-XXX-20-001	4006-1	71			
850-XX-XXX-30-001	4006-0	72			
851-XX-XXX-10-001	0489-0	70			
851-XX-XXX-10-002	0467-0	70			
851-XX-XXX-20-001	0489-1	71			
851-XX-XXX-30-001	0489-0	72			



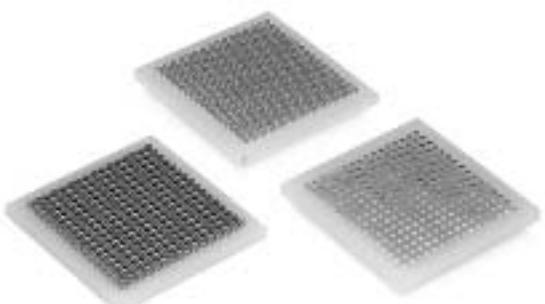
INDEX

NUMERICAL LISTING AND LOCATION OF MILL-MAX PINS

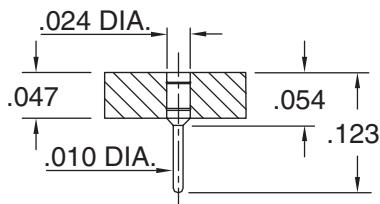


PART#	PAGE												
0038	162	0334	151	0505	170	1066	132	2218	130	2803	193	3230	180
0039	162	0335	147	0508	166	1067	169	2297	164	2804	194	3231	181
0040	162	0336	150	0512	130	1068	185	2301	189	2805	194	3232	180
0066	162	0338	141	0520	181	1070	185	2302	197	2806	194	3233	181
0067	162	0340	151	0522	169	1071	185	2303	196	2807	199	3301	177
0068	162	0341	133	0529	125	1072	185	2304	190	2808	199	3302	177
0086	162	0343	152	0542	169	1083	184	2305	190	2809	199	3303	177
0088	162	0344	150	0548	126	1090	184	2306	190	2810	191	3304	177
0089	162	0345	151	0550	130	1092	185	2307	190	2811	194	3360	177
0132	134	0347	152	0552	127	1093	185	2308	188	2812	191	3400	173
0133	134	0348	150	0553	126	1094	182	2309	201	2815	193	3401	173
0134	134	0349	150	0554	126	1095	183	2310	189	2816	193	3402	173
0135	134	0351	151	0555	132	1096	185	2311	190	2817	193	3403	170
0136	135	0354	154	0556	135	1097	183	2312	188	2821	187	3404	170
0137	135	0355	154	0558	132	1103	135	2313	202	3006	166	3405	173
0138	135	0356	152	0560	129	1104	137	2314	198	3013	134	3406	172
0139	135	0357	151	0566	126	1105	157	2315	197	3016	126	3407	172
0141	135	0358	152	0569	127	1106	185	2316	187	3018	139	3408	174
0144	136	0359	152	0574	130	1109	134	2317	187	3044	156	3409	172
0145	135	0360	152	0579	128	1110	182	2318	201	3061	128	3410	173
0146	135	0362	156	0600	173	1122	185	2319	202	3100	153	3411	173
0147	134	0363	156	0613	128	1124	182	2320	196	3101	179	3413	171
0148	135	0364	156	0616	159	1130	168	2321	202	3102	179	3450	149
0149	131	0365	156	0660	132	1147	128	2322	196	3103	179	3490	154
0152	135	0366	156	0664	143	1210	182	2323	196	3104	179	3516	170
0153	136	0367	156	0665	132	1212	183	2324	186	3105	179	3520	149
0156	134	0368	157	0666	133	1213	183	2325	189	3106	179	3601	181
0240	137	0370	159	0667	132	1214	183	2326	200	3110	178	3602	175
0252	133	0372	156	0668	133	1215	182	2328	196	3111	178	3603	174
0253	133	0373	151	0669	133	1216	183	2329	188	3112	175	3609	181
0255	134	0378	141	0670	133	1221	182	2333	187	3113	177	3620	177
0257	169	0381	156	0671	130	1222	182	2348	189	3114	175	3621	177
0259	179	0382	165	0672	137	1261	136	2352	197	3115	175	3667	157
0265	174	0383	165	0673	133	1267	168	2355	189	3116	168	3808	154
0270	174	0385	139	0675	132	1302	183	2362	197	3117	175	3907	139
0272	174	0387	159	0676	133	1303	148	2365	189	3118	175	4001	139
0273	144	0388	161	0677	132	1304	146	2400	147	3119	175	4006	166
0275	174	0389	161	0678	133	1305	147	2501	192	3121	166	4011	134
0279	146	0390	161	0679	132	1306	147	2502	198	3122	179	4030	138
0280	164	0391	159	0680	131	1313	149	2503	190	3123	179	4034	156
0281	164	0393	159	0682	132	1385	139	2505	189	3124	179	4040	159
0282	174	0394	159	0697	133	1401	139	2506	189	3125	179	4094	148
0284	144	0395	160	0700	174	1407	126	2507	197	3126	179	4095	148
0285	144	0396	143	0703	130	1434	131	2508	191	3128	166	4259	170
0286	179	0397	142	0707	130	1602	136	2510	188	3129	168	4310	139
0287	144	0398	142	0730	185	1610	136	2511	198	3130	177	4366	168
0290	173	0399	146	0814	152	1702	162	2512	193	3131	175	4378	135
0291	144	0400	147	0903	136	1703	162	2513	188	3132	178	4526	179
0292	142	0401	148	0904	136	1705	137	2514	201	3133	181	4582	157
0293	144	0405	150	0912	175	1706	137	2515	198	3134	177	4612	131
0294	142	0407	144	0915	169	1707	137	2516	198	3135	168	4613	131
0295	142	0415	144	0940	177	1752	171	2517	196	3136	178	4614	147
0297	142	0433	155	0952	169	1753	137	2520	196	3137	178	4615	147
0298	143	0434	155	0995	179	1762	137	2524	191	3138	181	4622	138
0300	146	0435	155	1001	134	1782	139	2526	197	3139	175	5005	173
0301	146	0436	155	1005	135	1801	134	2530	202	3140	179	5011	172
0303	144	0442	126	1010	182	1802	138	2533	187	3141	179	5012	166
0305	146	0444	163	1011	182	1803	138	2551	191	3142	180	5016	173
0306	144	0445	163	1012	182	1804	138	2561	191	3144	181	5059	152
0307	137	0446	163	1013	135	1805	138	2601	163	3145	180	5107	173
0309	146	0447	135	1020	182	1806	138	2602	163	3146	180	5113	172
0312	151	0461	127	1021	182	1807	138	2603	163	3147	168	5155	167
0314	151	0462	129	1022	182	1808	138	2617	171	3148	178	5275	182
0315	172	0463	129	1024	137	1873	145	2701	199	3149	179	5295	143
0316	151	0464	125	1030	162	2086	127	2702	192	3150	178	5301	184
0317	151	0466	129	1031	162	2101	187	2703	192	3151	177	5342	140
0318	183	0467	127	1032	162	2102	186	2704	190	3152	181	5435	168
0319	149	0468	130	1033	163	2103	195	2705	193	3153	179	5503	172
0322	150	0477	131	1034	162	2104	195	2706	202	3154	169	5504	172
0323	150	0478	131	1035	162	2105	195	2707	188	3155	167	5505	172
0324	150	0489	129	1036	162	2106	195	2708	187	3156	180	5509	172
0325	150	0490	159	1038	136	2107	195	2709	200	3157	169	5510	170
0326	143	0491	159	1040	162	2108	186	2710	192	3158	169	5511	170
0327	151	0492	156	1045	162	2109	186	2713	192	3159	180	5522	127
0328	151	0493	159	1047	163	2110	187	2715	199	3185	139	5531	128
0329	152	0496	157	1052	165	2111	186	2717	192	3210	168	5601	178
0330	146	0498	137	1053	165	2112	195	2762	199	3221	179	5602	178
0331	149	0501	131	1064	185	2113	186	2801	194	3222	179	5604	173
0333	151	0504	170	1065	132	2115	200	2802	194	3223	179	5650	145

- BGA adapter/socket systems are a reliable way to make BGAs pluggable, they may also be used as a high density board-to-board interconnect.
- The BGA device is soldered to a 9929 adapter (or a 7929 adapter is soldered to a PCB); and then either one can be plugged into a 9928 surface mount socket.
- Both socket and adapter have the same footprint as the BGA device.
- Insertion force is only .41N per pin, and a pry-bar tool (part #828-01-010) is available for extraction.
- Insulator material is FR-4 epoxy having a TCE to match the BGA device and circuit board.
- Mill-Max offers the option of having the solder surfaces of the 7929 adapter and 9928 socket pre-tinned.



**BGA MOUNT
ADAPTER PIN TYPE 9929**



Ordering Information

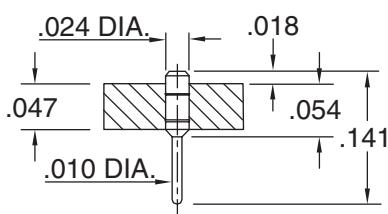
FOR BGA MOUNT ADAPTERS

Locate footprint pattern from page 222, the middle 8 digits of the part number will be located under the pattern.

Series	Plating Code	Window
5 9 9	- 1 0 -	□ □ □ - □ □ - □ □ □ □ 4 2 9
		No. of pins Grid size Pattern #

Determined from footprint pattern on page 222

**PRINTED CIRCUIT MOUNT
ADAPTER PIN TYPE 7929**



FOR PCB MOUNT ADAPTERS

Locate footprint pattern from page 222, the middle 8 digits of the part number will be located under the pattern.

Series	Plating Code	Window
5 7 9	- 1 0 -	□ □ □ - □ □ - □ □ □ □ 4 2 9
5 9 6	- 1 0 -	□ □ □ - □ □ - □ □ □ □ 4 6 1
		No. of pins Grid size Pattern # PRE-TINNED

Determined from footprint pattern on page 222

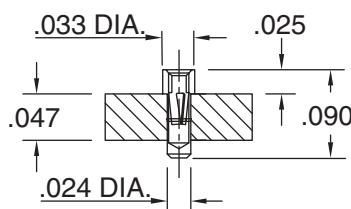
PLATING CODE XX=

10

Pin Plating

10 μ " Au

**SURFACE MOUNT
RECEPTACLE TYPE 9928**



FOR FEMALE SOCKETS

Locate footprint pattern from page 222, the middle 8 digits of the part number will be located under the pattern.

Series	Plating Code	Window
5 9 9	- 1 1 -	□ □ □ - □ □ - □ □ □ □ 4 2 8
5 9 6	- 1 1 -	□ □ □ - □ □ - □ □ □ □ 4 4 5
		No. of pins Grid size Pattern # PRE-TINNED

Determined from footprint pattern on page 222

SPECIFY PLATING CODE XX=

11

Sleeve (Pin)

10 μ " Au

Contact (Clip)

10 μ " Au



BALL GRID ARRAY FOOTPRINTS (1mm GRID)
*Top view shown, many other standard and custom footprints available.
Call Mill-Max for details.*

8 X 8	8 X 8	10 X 10	11 X 15	14 X 14	14 X 14
XXX-XX-054-04-005	XXX-XX-064-04-000	XXX-XX-100-05-000	XXX-XX-165-01-005	XXX-XX-168-07-005	XXX-XX-196-07-000

16 X 16	16 X 16	18 X 18	22 X 22	22 X 22	22 X 22
XXX-XX-208-08-001	XXX-XX-256-08-007	XXX-XX-324-09-000	XXX-XX-324-11-005	XXX-XX-376-11-005	XXX-XX-484-11-005

26 X 26	26 X 26	26 X 26	26 X 26
XXX-XX-352-13-007	XXX-XX-388-13-007	XXX-XX-484-13-005	XXX-XX-672-13-005

26 X 26	26 X 26	30 X 30	33 X 33
XXX-XX-675-13-005	XXX-XX-676-13-000	XXX-XX-432-15-001	XXX-XX-560-17-001

34 X 34	34 X 34	39 X 39	39 X 39
XXX-XX-580-17-005	XXX-XX-680-17-005	XXX-XX-560-20-007	XXX-XX-680-20-005



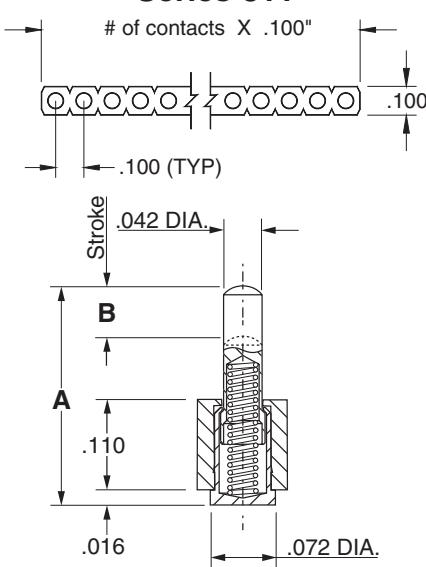
SURFACE MOUNT CONNECTORS
Modular Spring Loaded Contacts
Single and Double Row

Series 811, 813

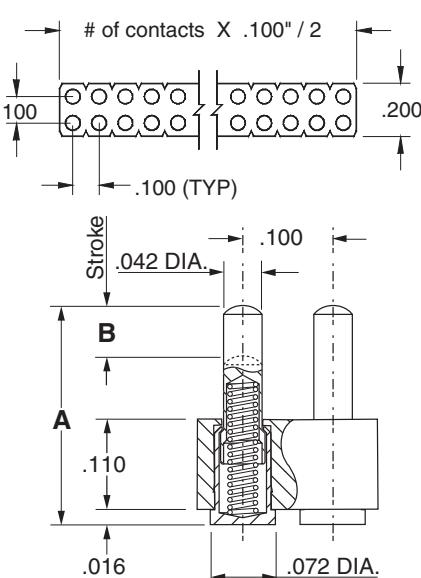
- Modular contacts for use on .100" grid, available in eight heights from .137" to .295", supplied in single and double row contact strips.
- Precision machined piston / base and gold plated components assure a 100,000 min. cycle life.
- Pistons have a long stroke relative to the low profile of the assembly.
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak.
- High temperature thermoplastic insulators are suitable for surface mount processes.
- A typical application would be as the base unit (battery/charger) interface for portable equipment such as mobile phones/radios, bar code readers, medical and test instruments.



**SINGLE ROW
Series 811**



**DOUBLE ROW
Series 813**



Ordering Information

Single Row Series 811

811-22-0 _ -30-00 _ -101
 Specify # of contacts → 01-64 Specify contact style 0-7 → 01-64

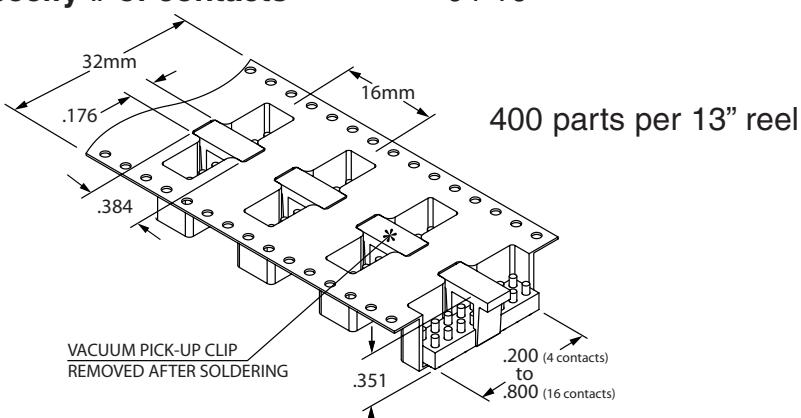
Double Row Series 813

813-22-0 _ -30-00 _ -101
 Specify # of contacts → 04-72 Specify contact style 0-7 → 04-72

CONTACT STYLE	INITIAL HEIGHT A	STROKE B
0	.137	.039
1	.177	.055
2	.197	.055
3	.217	.055
4	.236	.055
5	.256	.055
6	.276	.055
7	.295	.055

Double Row Series 813 in carrier tape

813-22-0 _ -30-00 _ -191
 Specify # of contacts → 04-16 Specify contact style 0-7 → 04-16

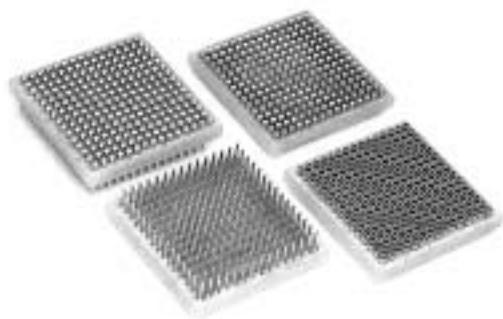




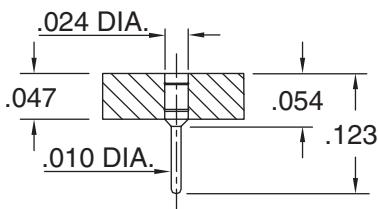
BALL GRID ARRAYS
For 0.8mm Grid
Male Pin Adapters & Female Socket

Series 5XX

- BGA adapter/socket systems are a reliable way to make BGAs pluggable, they may also be used as a high density board-to-board interconnect.
- The BGA device is soldered to a 9929 adapter (or a 7929 adapter is soldered to a PCB); and then either one can be plugged into a 9645 surface mount socket.
- Both socket and adapter have the same footprint as the BGA device.
- Insertion force is only .4N per pin, and a pry-bar tool (part #828-01-010) is available for extraction.
- Insulator material is FR-4 epoxy having a TCE to match the BGA device and circuit board.
- Mill-Max offers the option of having the solder surfaces of the 7929 adapter pre-tinned, the 9645 socket is pre-tinned as standard.



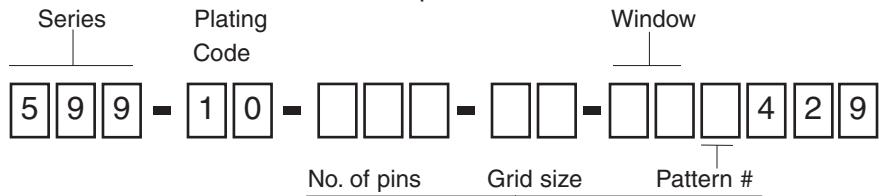
**BGA MOUNT
ADAPTER PIN TYPE 9929**



Ordering Information

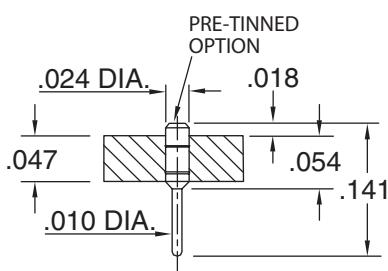
FOR BGA MOUNT ADAPTERS

Locate footprint pattern from page 225, the middle 8 digits of the part number will be located under the pattern.



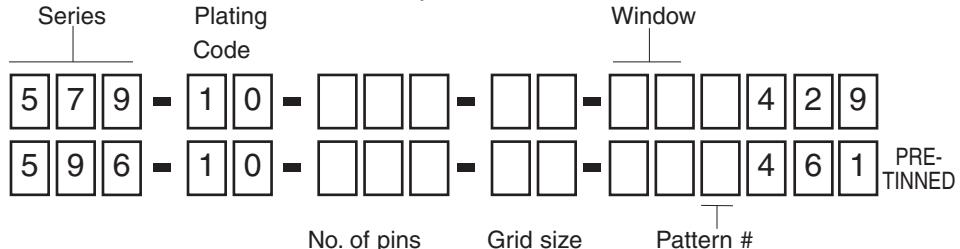
Determined from footprint pattern on page 225

**PRINTED CIRCUIT MOUNT
ADAPTER PIN TYPE 7929**



FOR PCB MOUNT ADAPTERS

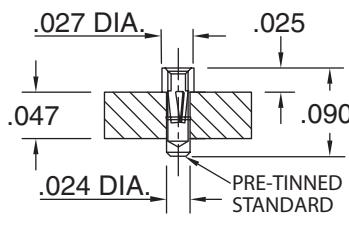
Locate footprint pattern from page 225, the middle 8 digits of the part number will be located under the pattern.



Determined from footprint pattern on page 225

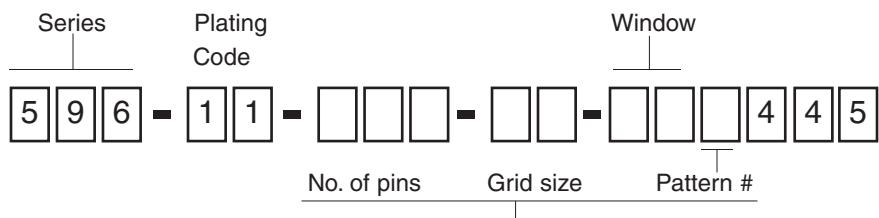
PLATING CODE XX=	10			
Pin Plating		10μ" Au		

**SURFACE MOUNT
RECEPTACLE TYPE 9645**



FOR FEMALE SOCKETS

Locate footprint pattern from page 225, the middle 8 digits of the part number will be located under the pattern.



Determined from footprint pattern on page 225

SPECIFY PLATING CODE XX=	11			
Sleeve (Pin)		10μ" Au		
Contact (Clip)		10μ" Au		



BALL GRID ARRAY FOOTPRINTS (0.8mm GRID)
Top view shown, many other standard and custom footprints available.
Call Mill-Max for details.

11 X 11	13 X 13	14 X 14	14 X 14
XXX-XX-100-06-001	XXX-XX-144-07-001	XXX-XX-131-07-001	XXX-XX-179-07-001
15 X 15	23 X 23		
XXX-XX-225-08-001	XXX-XX-424-12-001		

SPECIFICATIONS:

Materials:

- Socket contact: Three finger, stamped beryllium copper alloy 172, HT (Mill-Max type #04); plated 10 μ " gold over 50 μ " nickel
- Socket shell and adapter pins: Precision machined brass alloy; plated 10 μ " gold over 100 μ " nickel
- Insulator material: .047" thick glass-epoxy type FR-4, rated UL94V-0. TCE = 10-13ppm/ $^{\circ}$ C, ϵ_r = 5.0

Mechanical:

- Insertion and withdrawal forces (using .010" dia. polished steel gage pin): Insertion: .36N typ. per pin Withdrawal: .20N typ. per pin
- Insertion force of an actual 225 pin device: 90N
- Durability: 100 cycles
- Coplanarity: <.005"

Electrical:

- Current rating (per pin): 1 A
- Working voltage: 100 V_{RMS}/150 V_{DC} max.
- Low level contact resistance: 10 m Ω max.
- Insulation resistance @ 500 V_{RMS}:
Initial value: 1,000,000 M Ω min.
After climatic tests: 10,000 M Ω min.

- Dielectric withstanding voltage: 500 V_{RMS}
- Capacitance between adjacent contacts: 1 pF max.
- Self inductance per pin: 2 nH max.
- Electrical length: 31 pS

Environmental:

- Operating temperature range: -55 °C to +125 °C
BGA adapter/socket systems have withstood the following environmental tests without mechanical or electrical failure:
- Damp heat, steady state: 40 °C, 93% rH, 21 days
 - Damp heat, cyclic: 25/55 °C, 6 days
 - Dry heat: 100°C, 1,000 hours
 - Thermal shock: -55 to +125 °C, 5 cycles
 - Random vibration: 50 to 500 Hz, 8g, 20 min. per axis
 - Shock: 50 g per axis
 - Solderability: 235 °C, 2 seconds
 - Resistance to soldering heat: 270 °C, 10 seconds
 - Resistance to corrosion:

Salt spray: 48 hours

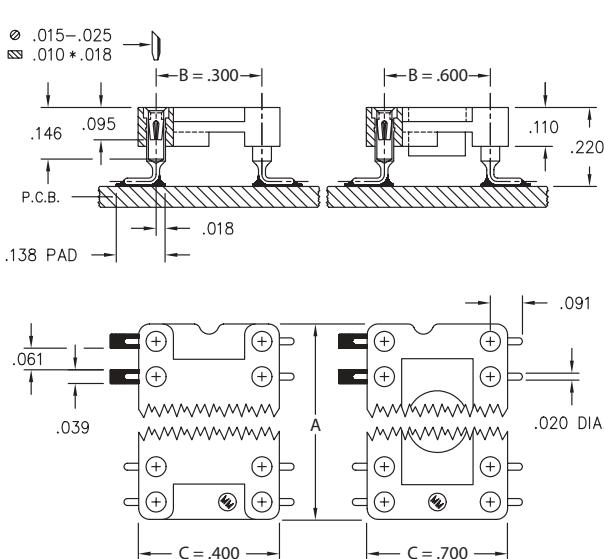
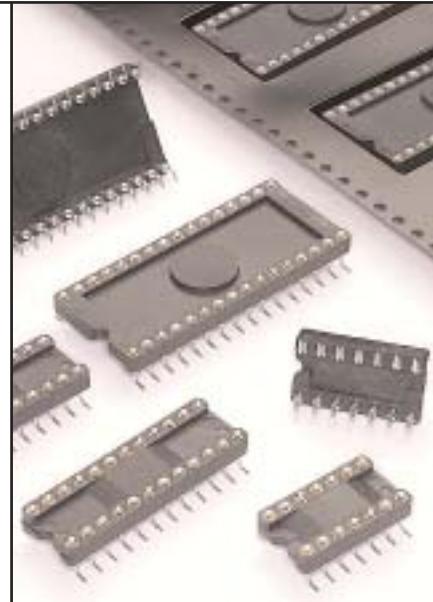
Sulphur dioxide: 96 hours @ 25 ppm SO₂, 25 °C, 75% rH

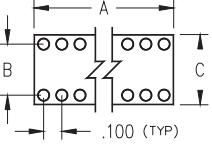
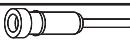
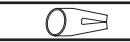
Hydrogen sulphide: 96 hours @ 12 ppm H₂S, 25°C, 75% rH



DUAL-IN-LINE SOCKETS
Surface Mount, Auto Placement, Gull Wing
Closed Frame

Series 210...105

	<ul style="list-style-type: none"> • Closed frame insulator is vision system compatible. • High-temp Nylon 46 insulator is suitable for all forms of reflow soldering. • Traditional gull-wing leads permit visual inspection of solder joints. • Available packaged in tubes or on tape & reel per EIA-481. • Uses Mill-Max #1005 pin. 	
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Total number of pins				Ordering Information						
				A	B	C	QTY PER TUBE	TUBE PACKAGING	TAPE & REEL PACKAGING	TAPE WIDTH (mm)
VACUUM PAD TOP SURFACE ONLY										
6	0.3	0.3	0.4	67	210-93-306-41-105000		210-93-306-41-105799		16	350
8	0.4	0.3	0.4	50	210-93-308-41-105000		210-93-308-41-105799		16	350
14	0.7	0.3	0.4	28	210-93-314-41-105000		210-93-314-41-105799		32	350
16	0.8	0.3	0.4	25	210-93-316-41-105000		210-93-316-41-105799		32	350
18	0.9	0.3	0.4	22	210-93-318-41-105000		210-93-318-41-105799		44	350
20	1.0	0.3	0.4	20	210-93-320-41-105000		210-93-320-41-105799		44	350
24	1.2	0.3	0.4	16	210-93-324-41-105000		210-93-324-41-105799		44	350
VACUUM PAD TOP AND BOTTOM										
24	1.2	0.6	0.7	16	210-93-624-41-105000		210-93-624-41-105799		44	250
28	1.4	0.6	0.7	14	210-93-628-41-105000		210-93-628-41-105799		56	250
32	1.6	0.6	0.7	12	210-93-632-41-105000		210-93-632-41-105799		56	250
40	2.0	0.6	0.7	10	210-93-640-41-105000		NOT AVAILABLE			
PLATING CODE =										
Sleeve (Pin) 										
Contact (Clip) 										



DUAL-IN-LINE SOCKETS
Surface Mount, Stub Tail, with
Alignment Pins for Hand Placement



Series 113

	<ul style="list-style-type: none"> Unique floating contacts compensate for effects of unevenly dispensed solder paste. Two corner alignment pins (power & ground positions) permit manual placement. High temperature insulator can withstand infra-red reflow and vapor phase soldering. Hi-Rel, 4-finger BeCu #30 clip rated at 3 amps. See page 208 for details. Uses Mill-Max #1334 & 1434 pins. See pages 130 & 131. 	
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Total number of pins	Quantity per tube			Ordering Information
	A	B	C	
10	0.5	0.2	0.3	113-93-210-41-117
4	0.2	0.3	0.4	113-93-304-41-117
6	0.3	0.3	0.4	113-93-306-41-117
8	0.4	0.3	0.4	113-93-308-41-117
10	0.5	0.3	0.4	113-93-310-41-117
14	0.7	0.3	0.4	113-93-314-41-117
16	0.8	0.3	0.4	113-93-316-41-117
18	0.9	0.3	0.4	113-93-318-41-117
20	1.0	0.3	0.4	113-93-320-41-117
22	1.1	0.3	0.4	113-93-322-41-117
24	1.2	0.3	0.4	113-93-324-41-117
28	1.4	0.3	0.4	113-93-328-41-117
20	1.0	0.4	0.5	113-93-420-41-117
22	1.1	0.4	0.5	113-93-422-41-117
24	1.2	0.4	0.5	113-93-424-41-117
28	1.4	0.4	0.5	113-93-428-41-117
32	1.6	0.4	0.5	113-93-432-41-117
24	1.2	0.6	0.7	113-93-624-41-117
28	1.4	0.6	0.7	113-93-628-41-117
32	1.6	0.6	0.7	113-93-632-41-117
36	1.8	0.6	0.7	113-93-636-41-117
40	2.0	0.6	0.7	113-93-640-41-117
42	2.1	0.6	0.7	113-93-642-41-117
48	2.4	0.6	0.7	113-93-648-41-117
50	2.5	0.6	0.7	113-93-650-41-117
52	2.6	0.6	0.7	113-93-652-41-117
50	2.5	0.9	1.0	113-93-950-41-117
52	2.6	0.9	1.0	113-93-952-41-117
64	3.2	0.9	1.0	113-93-964-41-117
PLATING CODE = 93 Sleeve (Pin) 200μ" Sn/Pb Contact (Clip) 30μ" Au				