



## FEATURES

- Cermet, Conductive Plastic, Carbon and Wirewound Elements
- CECC Approvals
- Linear, Logarithmic, Audio and Reverse Logarithmic Laws available
- Numerous Bush and Shaft Options
- Open and Fully Sealed Versions
- Custom Models available

## VARIATION LAWS

- A = Linear Law
- L = Log Law
- F = Reverse Log Law
- RL = CCW Log
- S = Audio Law

PRODUCT DESCRIPTION	TYPE	BODY DIMENSIONS (mm)	BUSHING ø (mm)	SHAFT ø (mm)	SHAFT LENGTH (mm)	RESISTANCE RANGE Ω	TOL. (± %)	VARIATION LAWS	POWER (Watts)
<b>Rotary Panel Pot.</b> P11 Cermet; PA11 Conductive Plastic Modular Construction - up to 7 gang assemblies. Switch and valley detent options, concentric shafts etc.	<b>P11</b>	12.5 sq	See Data Sheet	See Data Sheet	See Data Sheet	22R-4M7	5, 10, 20	RL,A,L,F & S	1.0 at 70°C
	<b>PA11</b>	12.5 sq				470R-220K	10, 20	RL,A,L,F & S	0.5 at 70°C
<b>Rotary Panel Pot.</b> Cermet, fully sealed, non-linear laws CECC approved - P12 = 0.5W; P13/P13V = 0.75W (at 70°C)	<b>P12</b>	12.0 sq	6 or 7	3 or 4	9.5, 12.5, 22	22R-10M	10, 20	A,L & F	1.0 at 70°C
	<b>P13</b>	12.6 Dia	6 or 7	3 or 4	9.5, 12.5, 22	22R-10M	5, 10, 20	A,L & F	1.5 at 70°C
	<b>P13V</b>	14.0 Dia.	10	6	16, 25, 50	22R-10M	5, 10, 20	A,L & F	1.5 at 70°C
<b>Rotary Panel Pot.</b> PRV6 cermet; PARV6 conductive plastic; fully sealed, non-linear laws	<b>PRV6</b>	12.7 Dia	6.35	3.17	9.52 min	20R-10M	5, 10, 20	A,L,F & RL	1.5 at 70°C
	<b>PARV6</b>	12.7 Dia	6.35	3.17	9.52 min	1K-500K	10, 20	A,L,F & RL	0.75 at 70°C
<b>Rotary Panel Pot.</b> P16 cermet; includes a unique knob for compact assembly. PA16 conductive plastic, fully sealed (IP67), military grade potentiometer, mechanical life 50,000 cycles	<b>P16</b>	16.0 Dia	10	N / A	N / A	22R-10M	10, 20	A,L & F	1.0 at 40°C
	<b>PA16</b>	16.0 Dia	10	N / A	N / A	1K-500K	10, 20	A,L & F	0.5 at 40°C
<b>Rotary Panel Pot.</b> Cermet; fully sealed, CECC41301-002 (PC230) Approved	<b>PE30</b>	19.7 Dia	10	6	16, 25 & 50	22R-10M	5, 10, 20	A,L & F	3.0 at 70°C
<b>Rotary Panel Pot.</b> Open construction D12C & D19C cermet; D12K carbon	<b>D12C</b>	12.0 Dia	7	4	N / A	22R-1M	10, 20, 30	A	0.5 at 70°C
	<b>D13C</b>	12.0 Dia	7	4	N / A	1K-470K	10, 20	L	0.25 at 70°C
	<b>D16C</b>	16.5 Dia	7	4	N / A	22R-1M	10, 20, 30	A	1.0 at 70°C
<b>Rotary Panel Pot.</b> Suffix C = cermet Suffix K = carbon	<b>D19C</b>	13.0 Dia	7	4	N / A	47R-4M7	10, 20	A	0.5 at 70°C
	<b>D23C</b>	13.0 Dia	7	4	N / A	1K-1M	10, 20	L	0.25 at 70°C
	<b>D26C</b>	19.0 Dia	10	6	N / A	22R-4M7	10, 20, 30	A	2.0 at 70°C
	<b>D12K</b>	19.0 Dia	10	6	N / A	1K-1M	10, 20	L	1.0 at 70°C
	<b>D13K</b>	16.0 Dia	7	4	N / A	22R-1M	10, 20, 30	A	0.50 at 70°C
	<b>D17K</b>	16.0 Dia	7	4	N / A	1K-4M7	10, 20, 30	L	0.25 at 70°C
	<b>D19K</b>	16.0 Dia	7	4	N / A	22R-4M7	10, 20, 30	A	4.00 at 40°C
	<b>D16K</b>	23.0 Dia	10	6	N / A	1K-4M7	10, 20, 30	L	1.30 at 40°C
	<b>D23K</b>	26.0 Dia	10	6	N / A	47R-4M7	10, 20, 30	A	1.50 at 70°C
	<b>D26K</b>	26.0 Dia	10	6	N / A	1K-1M	10, 20, 30	L	0.75 at 70°C
<b>Rotary Panel Pot.</b> Carbon	<b>D16H</b>	103.0 Dia	10	6	N / A	47R-10M	10, 20, 30, 50	A & L	0.08 or 0.15W

# Rotary Panel Potentiometers

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PRODUCT DESCRIPTION	TYPE	PACKAGE SIZE	ELEMENT TYPE	RESISTANCE RANGE $\Omega$	STANDARD LINEARITY	POWER	ROTATIONAL LIFE (cycles)
Rotary Panel Potentiometers Single-turn	143	28.5mm (1 1/8") dia.	Wirewound	1 to 50K (Linear)	$\pm 10\%$ $\pm 5\%$ , $\pm 1\%$ * *Special	2.0W at 40°C	10,000
	148	12.7mm (1/2") sq.	Conductive plastic	100 to 1M	$\pm 5\%$	0.5W at 70°C	50,000
	149	12.7mm (1/2") sq.	Cermet	10 to 2M	$\pm 5\%$	1.0W at 70°C	25,000
	153	33.33mm (1 1/32") dia.	Conductive plastic	50 to 5M (Linear) 250 to 2.5M (Tapered)	$\pm 5\%$ (Linear)	2.0W at 70°C	25,000
	174/175/176	21mm (0.83") sq.	Conductive plastic	100 to 2.5M (Linear)	$\pm 5\%$	0.5W at 70°C	174/175:50,000 176:2,000,000
	180	9.5mm (0.374") sq.	Conductive plastic	200 to 2.5M	$\pm 5\%$	0.10W at 40°C	40,000
	185	9.5mm (0.374") sq.	Carbon composition	500 to 2.0M	$\pm 5\%$	0.05W at 40°C (Linear)	10,000
	186	9.5mm (0.374") sq.	Carbon composition	500 to 2.0M	$\pm 5\%$	0.025W at 40°C	10,000
	188	12.7mm (1/2") sq.	Conductive plastic	100 to 5M (Linear) 500 to 2M (Tapered)	$\pm 5\%$	0.5W at 70°C (Bush Mount)	50,000
	192	12.7mm (1/2") dia.	Conductive plastic	100 to 5M (Linear) 500 to 2M (Tapered)	$\pm 5\%$ $\pm 20\%$ , $\pm 10\%$	0.5W at 70°C	50,000
	248	12.7mm (1/2") sq.	Conductive plastic	500 to 500K	$\pm 20\%$	0.5W at 70°C	50,000
	249	12.7mm (1/2") sq.	Cermet	500 to 500K	$\pm 10\%$	1W at 70°C	25,000



PRODUCT DESCRIPTION	TYPE	NOMINAL DISSIPATION WATTS AT 70°C	TOLERANCE ± %	RESISTANCE RANGE Ω	SEALING	ROTATION ANGLE	DIMENSIONS (mm)
Surface Mount Trimmers <small>Single-turn</small>	TS5Y	0.25	10	10-1M	Fully	220°±15°	5.0 x 5.0 x 2.7
	TS53Y	0.25	20	10-1M	Sealed	220°±15°	5.0 x 5.0 x 2.7
Surface Mount Multi-turn Trimmers <small>Power Rating at 85°C</small>	TSM4	0.25	10	10-1M	Fully sealed	11 ±2 Turns	4.8 x 5.1 x 3.8
	TSM43	0.25	10	10-1M	Fully sealed	11 ±2 Turns	4.8 x 5.1 x 3.8
Surface Mount Trimmers, Multi-turn <small>Power Rating at 85°C</small>	TS6	0.25	10	10-2.2M	Fully	13 Turns ±2	6.8 x 6.8 x 5.0
	TS63	0.25	10	10-2.2M	Sealed	13 Turns ±2	6.8 x 6.8 x 5.0
PRODUCT DESCRIPTION	TYPE	PACKAGE SIZE/STYLE	RESISTANCE RANGE Ω	OPTIONS	STANDARD RESISTANCE TOLERANCE	POWER RATING AT 70°C	
Surface Mount Trimmers <small>Cermet</small>	3H/3HJ	3mm, Open	100-2.2M		± 25%	0.1W	
	4H	4mm, Open	100-2M		± 25%	0.1W	
	4M	4mm, Sealed	200-2M		± 25%	0.1W	
	4G/4J	5mm, Sealed	10-1M		± 20%	0.25W	
	5W/5X	5mm, 11 Turns	10-2M		± 10%	0.25W	
Trimmers Single-turn Cermet <small>Fully Sealed</small>	63	10mm, (3/8") sq.	10-2M	Tape and Reel/Knob adjust	± 10%	0.5W	
	75	6.35mm, (1/4") dia	10-2M	Tape and Reel	± 10%	0.5W	
	76	6.9mm, (1/4") sq.	10-5M	Tape and Reel	± 20%	0.5W	
PRODUCT DESCRIPTION	TYPE	POWER RATING WATTS	TOLERANCE ± %	RESISTANCE RANGE Ω	ELEC. TRAVEL(mm) TURNS/(°)	DIMENSIONS (mm)	SPECIAL CHARACTERISTICS
Single-turn Trimming Potentiometers <b>Cermet</b> <small>Spindles/covers available for some models</small>	T5Y	0.20 at 85°C	10	10-1M	220±15	5.0 Sq	
	T53Y	0.25 at 70°C	20	10-1M	220±15	5.0 Sq	
	T7	0.50 at 85°C	10, 20	10-1M	270±15	7.0 ø	
	T73	0.50 at 85°C	5, 10	10-2M	250° ±15	6.6x7.1x4.7	Sealed
	T20	0.50 at 85°C	5, 10	10-2M	280° ±15	9.6x9.6x4.8	Sealed
	P8P	0.50 at 70°C	5, 10	10-2M2	270±15	8.5 Dia	P8P - CECC
	P8S	0.50 at 70°C	5, 10	10-2M2	270±15	8.5 Dia	P8ST - 1W at 70°C
	T11	0.50 at 70°C	5, 10, 20	22-4M7	270±10	12.5 Sq	
	T12	1.00 at 70°C	10, 20	22-10M	270±10	12x13x10	Log Law rated at 0.5W/70°C
	T13	1.00 at 70°C	10, 20	22-10M	270±10	12.7 ø	Log Law rated at 0.5W/70°C
	E08C	0.33 at 70°C	10, 20, 30	70-1M	240 nom.	10.0x8.2	Open Construction
	E10C	0.50 at 70°C	10, 20, 30	10-2M2	240 nom.	12.0x9.5	Open Construction
E15C	1.00 at 70°C	10, 20, 30	22-2M2	260 nom.	17.5x14.8	Open Construction	
E07C	0.50 at 70°C	10, 20	47-1M	≥270	6.9x8.2x5.8	Waterproof	
E13CS	0.50 at 70°C	10, 20	47-4M7	≥245	13.0ø x 11.0	Waterproof	
Single-turn Trimming Pots - Carbon	E15H	0.15	10, 20, 30	47-4M7	260 nom.	17.5x14.8	Open Construction
Multi-turn Trimming Potentiometers <small>Sealing:Fully Immersible</small>	T6	0.25 @ 85°C	5, 0	10-2M2	13+2	6.8x6.8x5.0	CECC 41101-005 Approved
	T63	0.25 @ 85°C	5, 10	10-2M2	13+2	6.8x6.8x5.0	
	T9	0.50 @ 85°C	5, 10	10-2M2	19+2	9.7x9.7x4.8	CECC 41101-004 Approved
	T93	0.50 @ 85°C	5, 10	10-2M2	19+2	9.7x9.7x4.8	
	T18	0.75 @ 70°C	5, 10	10-2M2	15+1	19x6.4x4.7	

# Trimming Potentiometers

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PRODUCT DESCRIPTION	TYPE	PACKAGE SIZE	RESISTANCE RANGE Ω	OPTIONS	STANDARD RESISTANCE TOLERANCE	POWER RATING	
<b>Trimmers</b> <b>Multi-turn Cermet</b> Fully Sealed	43	19mm, (3/4") rect.	10 to 2M	Clearlid, Panel Mount	± 10%	0.75W at 70°C	
	64	10mm, (3/8") sq.	10 to 2M	Tape and Reel	± 10%	0.5W at 70°C	
	70	31.75mm, (1 1/4") rect.	10 to 2M	Flying Leads, Panel Mount	± 10%	1.0W at 70°C	
	74	6.35mm, (1/4") sq	10 to 1M		± 10%	0.25W at 85°C	
<b>Trimmers</b> <b>Econtrim</b>	36P	6mm	100 to 2M		± 25%	0.3W	
	36M						
	36X						
	36T						
	36K						
	37H	9mm	100 to 4.7M		± 30%	0.2W	
37V							
38P	8.4mm	100 to 2.2M		± 25%	0.2W		
38W							
38M							
PRODUCT DESCRIPTION	TYPE	POWER RATING WATTS	TOLERANCE ± %	RESISTANCE RANGE Ω	ELEC. TRAVEL (mm) TURNS/(°)	DIMENSIONS (mm)	SPECIAL CHARACTERISTICS
<b>3/8" Sq. Wirewound Trimmers</b> Fully Sealed Case	117S	1.0 at 85°C	5	10-50K	22±4	3/8" Sq.	Precious metal wiper
	126S	1.0 at 85°C	5	10-50K	22±4	3/8" Sq.	
	151S	1.0 at 85°C	5	10-50K	22±4	3/8" Sq.	
	176S	1.0 at 85°C	5	10-50K	22±4	3/8" Sq.	
<b>1/4" Sq. Wirewound Trimmers</b> Fully Sealed Case (non-hermetic)	12S	0.5 at 85°C	5	10-25K	22±4	1/4" Sq.	Precious metal wiper
	14S	0.5 at 85°C	5	10-25K	22±4	1/4" Sq.	
	15S	0.5 at 85°C	5	10-25K	22±4	1/4" Sq.	
	17S	0.5 at 85°C	5	10-25K	22±4	1/4" Sq.	
	18S	0.5 at 85°C	5	10-25K	22±4	1/4" Sq.	
<b>Bulk-Metal Foil Precision Trimming Potentiometers</b> Settability 0.05% Type Setting Stability 0.1% Load Life <0.5%, 2000Hrs at 85°C TCR = 10ppm / °C End to End	1202	0.5	10 , 20	2-10	25±	31.75	
	(RJ12 Style)	0.5	5, 10	20-20K	25±	31.75	
	1208	0.5	20	2-10	25±	31.75	
	(RJ12 Style)	0.5	10	20-20K	25±	31.75	
	1240	0.25	10	2-10	21±	6.35 Sq	
	(RJ26 Style)	0.25	5	20-10K	21±	6.35 Sq	
	1242	0.25	10	50-10K	21±	6.35 Sq	
	(RJ26 Style)						
	1248	0.25	10	20-10K	21±	6.35 Sq	
	(RJ26 Style)						
1260	0.25	10	2-10	21±	10.67x9.35	TCR = 20ppm/°C	
(RJ24 Style)	0.25	5	20-10K	21±	10.67x9.35		
1268	0.25	10	20-100	21±	10.67x9.35		
(RJ24 Style)	0.25	5	200-10K	21±	10.67x9.35		
1280G	0.75	10	10-20K	26±	19.0	TCR = 15ppm/°C	
1285G	0.75	5	10-20K	26±	19.0	TCR = 5ppm/ °C	



PRODUCT DESCRIPTION	TYPE	PACKAGE SIZE	ELEMENT TYPE	RESISTANCE RANGE Ω	STANDARD LINEARITY	POWER WATTS AT 40°C	ROTATIONAL LIFE (CYCLES)
Multi-turn Potentiometers 10 Turns	162/164	12.7mm (1/2") dia.	Wirewound	100 to 100K	± 0.3%	2.0W	500,000
	502	22.2mm (7/8") dia.	Wirewound	15 to 100K	± 0.25%	2.0W	2 x 10 <sup>6</sup>
	534	22.2mm (7/8") dia.	Wirewound	10 to 100K	± 0.20%	2.0W	1 x 10 <sup>6</sup>
	536	22.2mm (7/8") dia.	Wirewound	100 to 100K	± 0.20%	2.0W	1 x 10 <sup>6</sup>
	802	46mm (1 13/16") dia.	Wirewound	20 to 200K	± 0.25%	5.0W	2 x 10 <sup>6</sup>
	860	46mm (1 13/16") dia.	Wirewound	20 to 200K	± 0.15 to 0.0250%	8.0W	500,000
Multi-turn Potentiometers 5 Turns	535	22.2mm (7/8") dia.	Wirewound	50 to 50K	± 0.25%	1.5W	500,000
Multi-turn Potentiometers 3 Turns	533	22.2mm (7/8") dia.	Wirewound	5 to 20K	± 0.25%	1.0W	300,000
	552	22.2mm (7/8") dia.	Wirewound	5 to 20K	± 0.25%	1W	600,000
	830	46mm (1 13/16") dia.	Wirewound	15 to 50K	± 0.25%	3.0W	500,000
	852	50.8mm (2") dia.	Wirewound	15 to 50K	± 0.25%	2.0W	600,000
PRODUCT DESCRIPTION	TYPE	PACKAGE SIZE	NUMBER OF TURNS	STANDARD FINISH	OPTIONS		
Multi-Dials	11	25.4mm (1") dia.	11	Satin chrome finish	See data sheet for full options on dials		
	15	25.4 x 44.45 mm (1" x 1 3/4")	100/10	Clear satin anodised	See data sheet for full options on dials		
	16	22.2mm (7/8") dia.	15	Satin chrome Black markings	See data sheet for full options on dials		
	21	46.02mm (1 3/16") dia.	15	Satin chrome Black markings	See data sheet for full options on dials		
	28	28mm (1.10") dia.	21	Clear satin anodised	See data sheet for full options on dials		