



## FEATURES

- Nickel Barrier or Silver Palladium Terminations
- Tolerances between  $\pm 0.25\text{pF}$  and 20% see detailed specifications
- Available Taped and Reeled for Automatic Insertion

PRODUCT DESCRIPTION	TYPE	SIZE	DIELECTRIC	CAPACITANCE RANGE pF	VOLTAGE RANGE VDC	DIMENSIONS MM WIDTH	DIMENSIONS MM LENGTH
<b>Multilayer Ceramic Chip Capacitors</b> High Q Dielectric for HF-Applications	VJ0402Q	0402	High Q	1.0- 47	50-100	0.51	1.00
	VJ0603Q	0603	High Q	1.0-100	50-100	0.80	1.60
	VJ0805Q	0805	High Q	1.0-150	50-100-200	1.25	2.00
	VJ1206Q	1206	High Q	1.0-270	50-100-200	1.60	3.20
<b>Multilayer Ceramic Chip Capacitors</b> NPO Dielectric	VJ0402A	0402	COG	1.0-220	50-100	0.51	1.00
	VJ0603A	0603	COG	1.0-680	50-100	0.80	1.60
	VJ0805A	0805	COG	1.0-3300	50-100	1.25	2.00
	VJ1206A	1206	COG	1.0-10000	50-100	1.60	3.20
	VJ1210A	1210	COG	220-15,000	50-100	2.50	3.20
	VJ1808A	1808	COG	220-10,000	50-100	2.00	4.50
	VJ1812A	1812	COG	470-22,000	50-100	3.20	4.50
	VJ1825A	1825	COG	1,000-39,000	50-100	6.40	4.50
	VJ2220A	2220	COG	6,800-33,000	50-100	5.10	5.60
	VJ2225A	2225	COG	1,200-56,000	50-100	6.35	5.60
<b>Multilayer Ceramic Chip Capacitors</b> NPO Dielectric High Voltage and Surge Suppression Capacitors	VJ0603A	0603	COG	1-270	200	0.80	1.60
	VJ0805A	0805	COG	1-820	200-500	1.25	2.00
	VJ1206A	1206	COG	1-3,300	200-500	1.60	3.20
	VJ1210A	1210	COG	10-5,600	200-500	2.50	3.20
	VJ1808A	1808	COG	68-6,800	200-500-1000	2.00	4.50
	VJ1812A	1812	COG	10-12,000 10-2,200	200-500 1000-3000	3.20 3.20	4.50 4.50
	VJ1825A	1825	COG	100-27,000	200-500	6.40	4.50
	VJ2220A	2220	COG	2,200-12,000	200-500-1000	5.10	5.60
VJ2225A	2225	COG	100-39,000	200-500	6.35	5.60	
<b>Multilayer Ceramic Chip Capacitors</b> X7R Dielectric	VJ0402Y	0402	X7R	100-33000	16-25-50-100	0.51	1.00
	VJ0603Y	0603	X7R	390-150,000	16-25-50-100	0.80	1.60
	VJ0805Y	0805	X7R	470-470,000	16-25-50-100	1.25	2.00
	VJ1206Y	1206	X7R	1000-1,000,000	16-25-50-100	1.60	3.20
	VJ1210Y	1210	X7R	10,000-1,000,000	16-25-50-100	2.50	3.20
	VJ1808Y	1808	X7R	10,000-270,000	50-100	2.00	4.50
	VJ1812Y	1812	X7R	22,000-1,000,000	50-100	3.20	4.50
	VJ1825Y	1825	X7R	22,000-1,800,000	50-100	6.40	4.50
	VJ2220Y	2220	X7R	270,000-1,800,000	50-100	5.10	5.60
	VJ2225Y	2225	X7R	33,000-2,700,000	50-100	6.35	5.60
<b>Multilayer Ceramic Chip Capacitors</b> X7R Ceramic High Voltage	VJ0603Y	0603	X7R	220-4,700	200	0.80	1.60
	VJ0805Y	0805	X7R	220-27,000	200	1.25	2.00
	VJ1206Y	1206	X7R	680-68,000	200-500	1.60	3.20
	VJ1210Y	1210	X7R	1,000-150,000	200-500	2.50	3.20
	VJ1808Y	1808	X7R	470-100,000	200-500-1000	2.00	4.50
	VJ1812Y	1812	X7R	1,000-390,000	200-500-1000	3.20	4.50
	VJ1825Y	1825	X7R	15,000-680,000	200-500-1000	6.40	4.50
	VJ2220Y	2220	X7R	15,000-470,000	200-500	5.10	5.60
	VJ2225Y	2225	X7R	33,000-1,200,000	200-500-1000	6.35	5.60

# Multilayer Ceramic Capacitors

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PRODUCT DESCRIPTION	TYPE	SIZE DIELECTRIC		CAPACITANCE RANGE pF	VOLTAGE RANGE VDC	DIMENSIONS [MM]		
						WIDTH	LENGTH	
<b>Multilayer Ceramic Chip Capacitors</b> BX Dielectric	VJ0402X	0402	BX	100-3,900	25-50	0.51	1.00	
	VJ0603X	0603	BX	100-15,000	25-50	0.80	1.60	
	VJ0805X	0805	BX	100-100,000	25-50-100	1.25	2.00	
	VJ1206X	1206	BX	100-330,000	25-50-100	1.60	3.20	
	VJ1210X	1210	BX	10,000-560,000	25-50-100	2.50	3.20	
	VJ1808X	1808	BX	10,000-270,000	25-50-100	2.00	4.50	
	VJ1812X	1812	BX	22,000-470,000	25-50-100	3.20	4.50	
	VJ1825X	1825	BX	33,000-1,000,000	25-50-100	6.40	4.50	
	VJ2220X	2220	BX	100,000-1,000,000	50-100	5.10	5.60	
	VJ2225X	2225	BX	56,000-2,700,000	25-50	6.35	5.60	
<b>Multilayer Ceramic Chip Capacitors</b> X8R Dielectric	VJ0603H	0603	X8R	680-18,000	25-50	0.80	1.60	
	VJ0805H	0805	X8R	470-68,000	25-50	1.25	2.00	
	VJ1206H	1206	X8R	2200-220,000	25-50	1.60	3.20	
	VJ1210H	1210	X8R	10,000-390,000	25-50	2.50	3.20	
	VJ1812H	1812	X8R	22,000-1,000,000	25-50	3.20	4.50	
	VJ2225H	2225	X8R	33,000-2,200,000	25-50	6.35	5.60	
<b>Multilayer Ceramic Chip Capacitors</b> CER-F Y5E Series	VJ0603F	0603	Y5E	470-15,000	25	0.80	1.60	
	VJ0805F	0805	Y5E	470-33,000	25	1.25	2.00	
	VJ1206F	1206	Y5E	1000-100,000	25	1.60	3.20	
	VJ1210F	1210	Y5E	10,000-330,000	25	2.50	3.20	
	VJ1812F	1812	Y5E	22,000-1,000,000	25	3.20	4.50	
PRODUCT DESCRIPTION	TYPE	SIZE DIELECTRIC		CAPACITANCE RANGE pF	VOLTAGE RANGE VDC	DIMENSIONS [MM]	THICKNESS (MAX)	
						WIDTH	LENGTH	
<b>Multilayer Ceramic Chip Capacitors</b> X7R-VTOP Very thin outline package	VJ9522Y	0603	X7R	470-22,000	25-50	0.80	1.60	0.56
	VJ9526Y	0603	X7R	470-27,000	25-50	0.80	1.60	0.66
	VJ9622Y	0805	X7R	470-56,000	25-50	1.25	2.00	0.56
	VJ9626Y	0805	X7R	470-100,000	25-50	1.25	2.00	0.66
	VJ9722Y	1206	X7R	1000-150,000	25-50	1.60	3.20	0.56
	VJ9726Y	1206	X7R	1000-180,000	25-50	1.60	3.20	0.66
	VJ9922Y	1210	X7R	10,000-270,000	25-50	2.50	3.20	0.56
	VJ9926Y	1210	X7R	10,000-330,000	25-50	2.50	3.20	0.66



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PRODUCT DESCRIPTION	TYPE	SIZE DIELECTRIC		CAPACITANCE RANGE pF	VOLTAGE RANGE VDC	DIMENSIONS [MM]		
						WIDTH	LENGTH	THICKNESS
<b>Multilayer Ceramic Chip Capacitors</b> X7R-0612 Low Inductance	VJ0612Y	0612	X7R	8200-330,000	16-25-50	3.20	1.60	
<b>Multilayer Ceramic Chip Capacitors Tip and Ring</b> X7R-Y	VJ9427Y	1812	X7R	100,000-330,000	250	3.20	4.50	
	VJ9174Y	1825	X7R	150,000-680,000	250	6.40	4.50	
	VJ2225Y	2225	X7R	33,000-1,000,000	250	6.35	5.60	
<b>Multilayer Ceramic Chip Capacitors</b> MIL-Qualified Type Cor BP-NPO BX-X7R	CDR01BP	0805	NPO	10-180	100	1.25	2.00	
	CDR01BX	0805	X7R	220-4700	50-100	1.25	2.00	
	CDR02BP	0805	NPO	220-270	100	1.25	4.50	
	CDR02BX	0805	X7R	3,900-22,000	50-100	1.25	4.50	
	CDR03BP	1808	NPO	330-1,000	100	2.00	4.50	
	CDR03BX	1808	X7R	12,000-68,000	50-100	2.00	4.50	
	CDR04BP	1812	NPO	1,200-3,300	100	3.20	4.50	
	CDR04BX	1812	X7R	39,000-18,0000	50-100	3.20	4.50	
	CDR31BP	0805	NPO	1.0-680	50-100	1.25	2.00	
	CDR31BX	0805	X7R	470-18,000	50-100	1.25	2.00	
	CDR32BP	1206	NPO	1.0-2,200	50-100	1.60	3.20	
	CDR32BX	1206	X7R	4,700-39,000	50-100	1.60	3.20	
	CDR33BP	1210	NPO	1,000-3,300	50-100	2.50	3.20	
	CDR33BX	1210	X7R	15,000-100,000	50-100	2.50	3.20	
	CDR34BP	1812	NPO	2,200-10,000	50-100	3.20	4.50	
	CDR34BX	1812	X7R	27,000-180,000	50-100	3.20	4.50	
	CDR35BP	1825	NPO	4,700-22,000	50-100	6.40	4.50	
	CDR35BX	1825	X7R	56,000-470,000	50-100	6.40	4.50	
		CAPACITANCE RANGE pF	VOLTAGE RANGE VDC	DIMENSIONS [MM] MAX				
				WIDTH	LENGTH	THICKNESS	PITCH	
<b>Ceramic Capacitors</b> Monolithic®, Conformal-Coated, Radial Lead	1C	10-330,000	50-100	6.35	5.08	3.175	2.54 to 7.62	
	2C	10,000-1,000,000	50	7.62	7.62	3.988	5.08 to 10.16	
	3C	22,000-3,300,000	50	10.16	10.16	3.988	5.08 to 10.16	
	5C	47,000-4,700,000	50	12.70	12.70	5.080	5.08 to 10.16	
	9C	10-47,000	50-100	3.048	3.505	2.540	2.54	
<b>Ceramic Capacitors</b> Monolithic®, Conformal-Coated, Axial Leaded, Multi-Layer	592C	10-1,000,000	50	according to case code see full data sheet				
<b>Ceramic Capacitors</b> Monolithic®, Dual in Line, Molded Dip	923C	10-1,000,000	50	according to case code see full data sheet				

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PRODUCT DESCRIPTION	TYPE	DIELECTRIC	DESIGN	VOLT	CAPACITANCE pF	PITCH	DIMENSIONS MM				
							BODY HEIGHT	BODY WIDTH	BODY THICKNESS		
Multilayer Ceramic Radial Dipped Capacitors	VP31	NPO	Dipped Radial	50/63 V	1 - 2200	2.54	4	4	2.5		
				100 V	1 - 1500	2.54	4	4	2.5		
			High Voltage	200 V	1 - 820	2.54	4	3.8	3.2		
				500 V	1 - 390	2.54	4	3.8	3.2		
		X7R	Dipped Radial	50/63 V	100 - 100000	2.54	4	4	2.5		
				100 V	100 - 56000	2.54	4	4	2.5		
			High Voltage	200 V	100 - 27000	2.54	4	3.8	3.2		
				Z5U	Dipped Radial	25 V	270000 - 330000	2.54	4	4	2.5
		50/63 V	120000 - 150000			2.54	4	4	2.5		
		Dipped Radial	50/63 V		10 - 12000	2.54	5.1	5.1	2.5		
			VP32		NPO	High Voltage	100 V	10 - 6800	2.54	5.1	5.1
		200 V		1 - 6800			2.54	5.1	5.1	3.2	
	High Voltage	500 V		1 - 1800		2.54	5.1	5.1	3.2		
		25 V		270000 - 1000000		2.54	5.1	5.1	2.5		
	X7R	Dipped Radial		50/63 V	1000 - 470000	2.54	5.1	5.1	2.5		
				100 V	1000 - 330000	2.54	5.1	5.1	2.5		
		High Voltage		200 V	100 - 150000	2.54	5.1	5.1	3.2		
				Z5U	High Voltage	500 V	100 - 39000	2.54	5.1	5.1	3.2
	50/63 V	560000 - 680000				2.54	5.1	5.1	2.5		
	VP40	NPO			Dipped Radial	50/63 V	1 - 2200	5.08	4	4	2.5
						100 V	1 - 1500	5.08	4	4	2.5
				25 V		68 - 220000	5.08	4	4	2.5	
			X7R	Dipped Radial	50/63 V	100 - 100000	5.08	4	4	2.5	
	100 V	100 - 56000			5.08	4	4	2.5			
	Dipped Radial	50/63 V		10 - 12000	5.08	5.1	5.1	2.5			
	VP41	NPO	High Voltage	100 V	10 - 6800	5.08	5.1	5.1	2.5		
				200 V	1 - 6800	5.08	5.1	5.1	3.2		
			High Voltage	500 V	1 - 1800	5.08	5.1	5.1	3.2		
25 V				270000 - 1000000	5.08	5.1	5.1	2.5			
Dipped Radial		High Voltage	50/63 V	1000 - 470000	5.08	5.1	5.1	2.5			
			X7R	High Voltage	100 V	1000 - 330000	5.08	5.1	5.1	2.5	
		200 V			100 - 150000	5.08	5.1	5.1	3.2		
		500 V		100 - 39000	5.08	5.1	5.1	3.2			
Z5U		Dipped Radial	50/63 V	560000 - 680000	5.08	5.1	5.1	2.5			
			50/63 V	680 - 18000	5.08	6.5	6.8	2.5			
			100 V	680 - 15000	5.08	6.5	6.8	2.5			
VP43		NPO	High Voltage	200 V	100 - 12000	5.08	6.5	6.8	3.2		
	500 V			10 - 4700	5.08	6.5	6.8	3.2			
	High Voltage		25 V	22000 - 1,500000	5.08	6.5	6.8	2.5			
			Dipped Radial	50/63 V	22000 - 1000000	5.08	6.5	6.8	2.5		
	Dipped Radial	100 V		22000 - 820000	5.08	6.5	6.8	2.5			
		X7R	High Voltage	200 V	4700 - 330000	5.08	6.5	6.8	3.2		
	500 V			1000 - 100000	5.08	6.5	6.8	3.2			
	Z5U		Dipped Radial	25 V	1800000 - 2200000	5.08	6.5	6.8	2.5		
				50/63 V	1200000 - 1500000	5.08	6.5	6.8	2.5		



# Multilayer Ceramic Capacitors

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PRODUCT DESCRIPTION	TYPE	DIELECTRIC	DESIGN	VOLT	CAPACITANCE pF	PITCH	DIMENSIONS MM					
							BODY HEIGHT	BODY WIDTH	BODY THICKNESS			
Multilayer Ceramic Radial Dipped Capacitors	VP44	NPO	Dipped Radial	50/63 V	12000 - 56000	5.08	7.6	7.6	2.5 - 5			
				100 V	6800 - 39000	5.08	7.6	7.6	2.5 - 5			
				200 V	4700 - 27000	5.08	7.6	7.6	3.2 - 5			
			High Voltage Dipped Radial	500 V	2200 - 12000	5.08	7.6	7.6	3.2 - 5			
				50/63 V	390000 - 1800000	5.08	7.6	7.6	2.5 - 5			
				50/63 V	390000 - 1800000	5.08	7.6	7.6	2.5 - 5			
		X7R	High Voltage	100 V	220000 - 1800000	5.08	7.6	7.6	2.5 - 5			
				200 V	100 - 680000	5.08	7.6	7.6	3.2 - 5			
				500 V	15000 - 220000	5.08	7.6	7.6	3.2 - 5			
		Z5U	Dipped Radial	25 V	220000 - 4700000	5.08	7.6	7.6	3.2 - 5			
				50/63 V	2200000 - 4700000	5.08	7.6	7.6	3.2 - 5			
				50/63 V	39000 - 56000	5.08	10	7.8	2.5			
	VP45	NP0	High Capacitive	100 V	27000 - 47000	5.08	10	7.8	2.5			
				200 V	15000 - 39000	5.08	10	7.8	3.2			
				500 V	6800 - 12000	5.08	10	7.8	3.2			
				25 V	1800000 - 4700000	5.08	10	7.8	2.5 - 3.2			
				50/63 V	1200000 - 2700000	5.08	10	7.8	2.5 - 3.2			
				50/63 V	1200000 - 2700000	5.08	10	7.8	2.5 - 3.2			
		X7R	High Capacitive	100 V	680000 - 1800000	5.08	10	7.8	2.5 - 3.2			
				200 V	390000 - 1200000	5.08	10	7.8	2.5 - 3.2			
				500 V	150000 - 330000	5.08	10	7.8	2.5 - 3.2			
		Z5U	High Capacitive	25 V	1200000 - 4700000	5.08	10	7.8	2.5			
				50/63 V	1200000 - 3900000	5.08	10	7.8	2.5			
				Dipped Radial 50/63 V	1000 - 10000	7.62	5.1	6.8	2.5			
	VP52	NP0	High Voltage	100 V	820 - 8200	7.62	5.1	6.8	2.5			
				200 V	100 - 3300	7.62	5.1	6.8	3.2			
				500 V	100 - 820	7.62	5.1	6.8	3.2			
				Dipped Radial	50/63 V	12000 - 220000	7.62	5.1	6.8	2.5		
					X7R	High Voltage	100 V	120000 - 150000	7.62	5.1	6.8	2.5
							200 V	4700 - 68000	7.62	5.1	6.8	3.2
500 V		1000 - 15000	7.62	5.1			6.8	3.2				
Z5U		Dipped Radial	25 V	100000 - 470000	7.62	5.1	6.8	2.5				
			50/63 V	100000 - 470000	7.62	5.1	6.8	2.5				
	50/63 V		68000 - 220000	10.16	14.5	11.5	3.6 - 6.3					
VP60	NP0	High Capacitive	100 V	39000 - 180000	10.16	14.5	11.5	3.6 - 6.3				
			200 V	27000 - 82000	10.16	14.5	11.5	3.6 - 6.3				
			500 V	12000 - 56000	10.16	14.5	11.5	3.6 - 6.3				
			25 V	6800000 - 12000000	10.16	14.5	11.5	3.6 - 6.3				
			50/63 V	3300000 - 10000000	10.16	14.5	11.5	3.6 - 6.3				
			X7R	High Capacitive	100 V	1800000 - 8200000	10.16	14.5	11.5	3.6 - 6.3		
					200 V	560000 - 2700000	10.16	14.5	11.5	3.6 - 6.3		
					500 V	390000 - 1000000	10.16	14.5	11.5	3.6 - 6.3		
					50/63 V	5600000 - 27000000	10.16	12.7	11.5	3.6 - 6.3		
					50/63 V	5600000 - 27000000	10.16	12.7	11.5	3.6 - 6.3		
	Z5U	High Capacitive	100 V	10000000 - 15000000	10.16	12.7	11.5	3.6 - 6.3				
			200 V	3300000 - 5600000	10.16	12.7	11.5	3.6 - 6.3				
			200 V	3300000 - 5600000	10.16	12.7	11.5	3.6 - 6.3				
			200 V	3300000 - 5600000	10.16	12.7	11.5	3.6 - 6.3				
			200 V	3300000 - 5600000	10.16	12.7	11.5	3.6 - 6.3				