

Features

- Capacitance Range: 100pF to 5.6μF
- Operating Temperature Range: -55°C to 125°C
- Voltage Range: 1kV to 10kV
- Intermediate and Higher Voltages are Available
- High Reliability Long Life
- Conformal Coated

VXC series is high voltage radial lead multilayer ceramic capacitors for use in high reliability commercial and industrial applications. These capacitors are designed

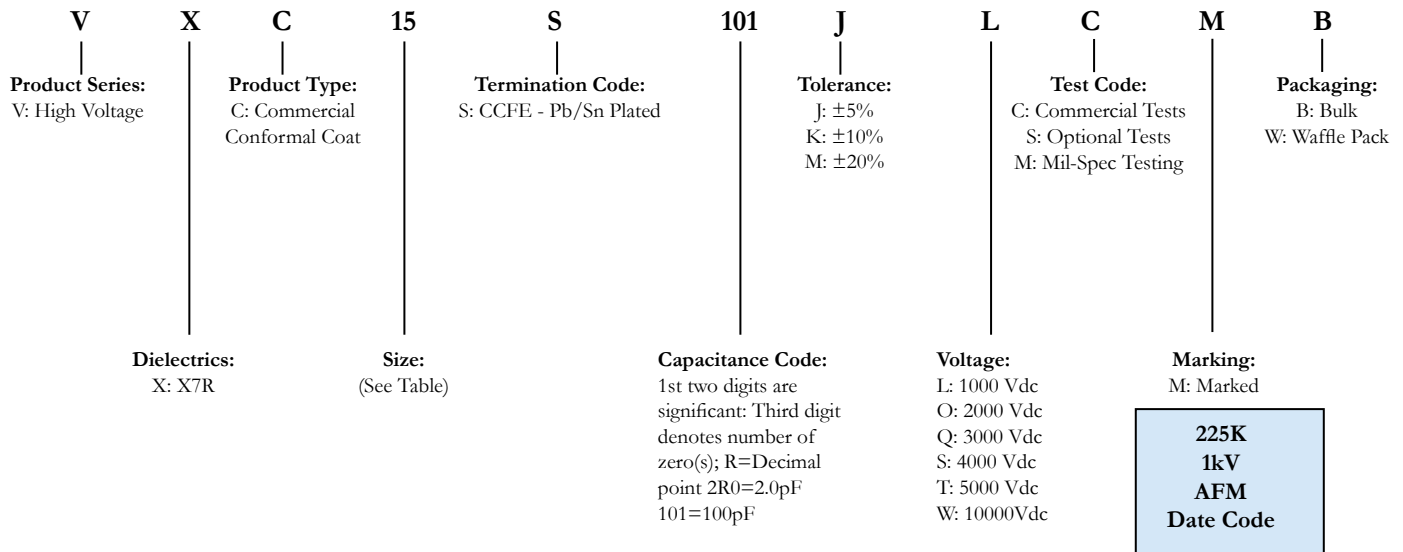
using a high density barium titanate ceramic, having temperature coefficients meeting X7R standards. These capacitors conform to or exceed design guidelines outlined in DSCC and other MIL drawings and standards. Each capacitor is 100% tested physically and electrically. Group A and Group B Inspections, as well as partial discharge, SLAM and CSAM are available as options.



Application

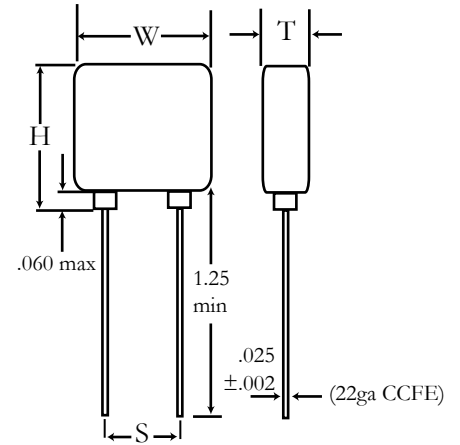
Typical applications include high voltage power supplies, voltage multipliers, surge protection and other custom applications.

AFM Part Number Code



Size Information

Style	Sizes (Max) Inches (mm)			Lead Spacing ±0.30 (S)
	Width (W)	Height (H)	Thickness (T)	
15	.250 (6.35)	.220 (5.59)	.200 (5.08)	.170 (4.32)
20	.320 (8.13)	.280 (7.11)	.250 (6.35)	.220 (5.59)
22	.370 (9.40)	.300 (7.62)	.250 (6.35)	.275 (6.99)
30	.450 (11.43)	.220 (5.59)	.200 (5.08)	.300 (7.62)
35	.470 (11.94)	.400 (10.16)	.270 (6.86)	.375 (9.53)
41	.550 (13.97)	.280 (7.11)	.250 (6.35)	.400 (10.16)
45	.570 (14.48)	.500 (12.70)	.270 (6.86)	.475 (12.07)
55	.670 (17.02)	.600 (15.24)	.270 (6.86)	.575 (14.61)
65	.770 (19.56)	.720 (18.29)	.270 (6.86)	.675 (17.15)
70	.850 (21.59)	.400 (10.16)	.270 (6.86)	.700 (17.78)
90	1.05 (26.27)	.500 (12.70)	.270 (6.86)	.975 (24.77)
95	1.25 (31.75)	.600 (15.24)	.270 (6.86)	1.175 (29.85)
99	1.45 (36.83)	.720 (18.29)	.270 (6.86)	1.375 (34.93)



X7R Capacitance Range

Style	500V		1kV		2kV		3kV		4kV		5kV		10kV	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
15	680pF	.082μF	680pF	.022μF	270pF	3900pF	100pF	1200pF						
20	1200pF	.180μF	1200pF	.068μF	560pF	.012μF	560pF	3900pF						
22	1200pF	.220μF	1200pF	.082μF	680pF	.018μF	680pF	5600pF						
30	1800pF	.220μF	1800pF	.056μF	390pF	8200pF	390pF	2200pF	150pF	1200pF				
35	3300pF	.560μF	3300pF	.270μF	1200pF	.033μF	1200pF	.015μF	270pF	6800pF				
41	2700pF	.390μF	2700pF	.150μF	680pF	.022μF	680pF	8200pF	270pF	4700pF	270pF	2700pF		
45	6800pF	1.20μF	6800pF	.470μF	2700pF	.068μF	2700pF	.033μF	470pF	.010μF	470pF	6800pF		
55	.010μF	1.80μF	.010μF	.680μF	3900pF	.100μF	3900pF	.039μF	680pF	.015μF	680pF	.010μF		
65	.015μF	2.50μF	.015μF	1.00μF	6800pF	.180μF	6800pF	.082μF	1200pF	.027μF	1000pF	.015μF	270pF	1200pF
70	.010μF	1.50μF	.010μF	.680μF	1800pF	.082μF	1800pF	.027μF	680pF	.012μF	680pF	8200pF	150pF	1000pF
90	.012μF	2.20μF	.012μF	1.00μF	3300pF	.150μF	3300pF	.056μF	1200pF	.027μF	1000pF	.022μF	470pF	3900pF
95	.018μF	3.90μF	.018μF	1.5μF	5600pF	.250μF	5600pF	.082μF	2200pF	.047μF	2000pF	.027μF	820pF	5600pF
99	.027μF	5.60μF	.027μF	2.20μF	8200pF	.390μF	8200pF	.120μF	3300pF	.068μF	3000pF	.039μF	1000pF	.010μF

Specification and Performance

Piezoelectric and Aging Effects:	None
Temperature Range:	-55°C to +200°C
Temperature Coefficient of Capacitance:	±15%
Insulation Resistance (IR, at Rated Voltage):	25°C > 100,000 MΩ or 1000 MΩμF; 125°C > 10,000 MΩ or 100 MΩμF Whichever is less
Dielectric Withstand Voltage (DWV):	500V to 10kV - 1.2 x V Rated at 25°C
Dissipation Factor:	2.5% max