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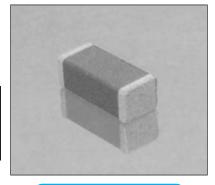
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Jameco Part Number 2027725

# **High Voltage MLCC (RoHS)**

## Applications from 600V to 5000V





High value, low leakage and small size are difficult parameters to obtain in capacitors for high voltage systems. AVX special high voltage MLC chips capacitors meet these performance characteristics and are designed for applications such as snubbers in high frequency power converters, resonators in SMPS, and high voltage coupling/DC blocking. These high voltage chip designs exhibit low ESRs at high frequencies.

Larger physical sizes than normally encountered chips are used to make high voltage chips. These larger sizes require that special precautions be taken in applying these chips in surface mount assemblies. This is due to differences in the coefficient of thermal expansion (CTE) between the substrate materials and chip capacitors. Apply heat at less than 4°C per second during the preheat. The preheat temperature must be within 50°C of the peak temperature reached by the ceramic bodies through the soldering process. Chips 1808 and larger to use reflow soldering only.

Capacitors with X7R Dielectrics are not intended for AC line filtering applications. Contact plant for recom-

Capacitors may require protective surface coating to prevent external arcing.

## **NEW 630V RANGE**

## Check for up-to-date CV Tables at http://www.avx.com/docs/catalogs/aphvc.pdf

### **HOW TO ORDER**

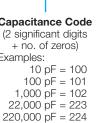
A

1808

	$\top$
AVX	Voltage
Style	600V/630V = C
1206	1000V = A
1210	1500V = S
1808	2000V = G
1812	2500V = W
1825	3000V = H
2220	4000V = J
2225	5000V = K
3640	

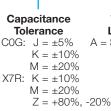






 $1 \mu F = 105$ 











1 = 7" Reel

9 = Bulk

3 = 13" Reel

Special Code

A = Standard

\*Note: Capacitors with X7R dielectrics are not intended for applications across AC supply mains or AC line filtering with polarity reversal. Contact plant for recommendations.

Z = Flexiterm™ V+

NOTE: Contact factory for availability of Termination and Tolerance Options for Specific Part Numbers.

#### HIGH VOLTAGE COG CAPACITANCE VALUES

VOLTAGE	0805	1206	1210	1808	1812	1825	2220	2225	3640
600/630 min. max.	10pF	10 pF	100 pF	100 pF	100 pF	1000 pF	1000 pF	1000 pF	1000 pF
	330pF	1200 pF	2700 pF	3300 pF	5600 pF	0.012 µF	0.012 µF	0.018 µF	0.047 µF
1000 min. max.	10pF	10 pF	10 pF	100 pF	100 pF	100 pF	1000 pF	1000 pF	1000 pF
	180pF	560 pF	1500 pF	2200 pF	3300 pF	8200 pF	0.010 µF	0.010 µF	0.022 µF
1500 min.		10 pF	10 pF	10 pF	10 pF	100 pF	100 pF	100 pF	100 pF
max.	_	270 pF	680 pF	820 pF	1800 pF	4700 pF	4700 pF	5600 pF	0.010 µF
2000 min.	_	10 pF	10 pF	10 pF	10 pF	100 pF	100 pF	100 pF	100 pF
2000 max.	_	120 pF	270 pF	330 pF	680 pF	1800 pF	2200 pF	2700 pF	6800 pF
2500 min.		_		10 pF	10 pF	10 pF	100 pF	100 pF	100 pF
max.	_	_	_	180 pF	470 pF	1200 pF	1500 pF	1800 pF	3900 pF
3000 min.	_	_		10 pF	10 pF	10 pF	10 pF	10 pF	100 pF
max.	_	_	_	120 pF	330 pF	820 pF	1000 pF	1200 pF	2700 pF
4000 min.	_	_	_	10 pF	10 pF	10 pF	10 pF	10 pF	100 pF
max.	_			47 pF	150 pF	330 pF	470 pF	560 pF	1200 pF
5000 min.		_	_	_	_	_	_	_	10 pF
max.	_	_	_	_	_	_	_	_	820 pF

#### HIGH VOLTAGE X7R MAXIMUM CAPACITANCE VALUES

VOLTAGE	0805	1206	1210	1808	1812	1825	2220	2225	3640
600/630 min. max.	100pF 6800pF	1000 pF 0.022 µF	1000 pF 0.056 µF	1000 pF 0.068 µF	1000 pF 0.120 μF	0.010 μF 0.270 μF	0.010 µF 0.270 µF	0.010 μF 0.330 μF	0.010 μF 0.560 μF
1000 min. max.	100pF 1500pF	100 pF 6800 pF	1000 pF 0.015 µF	1000 pF 0.018 µF	1000 pF 0.039 µF	1000 pF 0.100 μF	1000 pF 0.120 µF	1000 pF 0.150 μF	0.010 μF 0.220 μF
1500 min. max.	<u> </u>	100 pF 2700 pF	100 pF 6800 pF	100 pF 6800 pF	100 pF 0.015 μF	1000 pF 0.056 µF	1000 pF 0.056 µF	1000 pF 0.068 μF	1000 pF 0.100 μF
2000 min. max.		10 pF 1500 pF	100 pF 3900 pF	100 pF 3300 pF	100 pF 8200 pF	100 pF 0.027 µF	1000 pF 0.027 µF	1000 pF 0.033 μF	1000 pF 0.027 µF
2500 min. max.			1 1	10 pF 2200 pF	10 pF 5600 pF	100 pF 0.015 µF	100 pF 0.018 µF	100 pF 0.022 μF	1000 pF 0.022 µF
3000 min. max.				10 pF 1800 pF	10 pF 4700 pF	100 pF 0.012 µF	100 pF 0.012 µF	100 pF 0.015 μF	1000 pF 0.018 µF
4000 min. max.				_	_	_		_	100 pF 6800 pF
5000 min. max.						_	_	_	100 pF 3300 pF

