High Voltage MLC Leaded Chips

For 600V to 5000V Applications

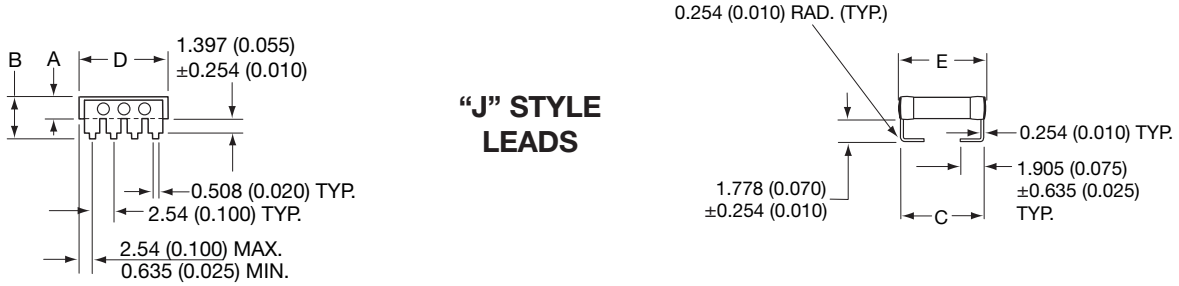
HOW TO ORDER

1825	A	A	271	K	A	V	00N
AVX Style	**Voltage**	**Temperature Coefficient**	**Capacitance Code**	**Capacitance Tolerance**	**Test Level**	**Finish**	**Lead Style**
1825	600V/630V = C	C0G = A	(2 significant digits	C0G:J = ±5%	A = Standard	V = Uncoated	00N = Straight Lead
2225	1000V = A	X7R = C	+ no. of zeros)	K = ±10%		W = Epoxy Coated	00J = Leads Formed In
3640	1500V = S		Examples:	M = ±20%			00L = Leads Formed Out
	2000V = G		10 pF = 100	X7R:K = ±10%			
	2500V = W		100 pF = 101	M = ±20%			
	3000V = H		1,000 pF = 102	Z = +80%,			
	4000V = J		22,000 pF = 223	-20%			
	5000V = K		220,000 pF = 224				

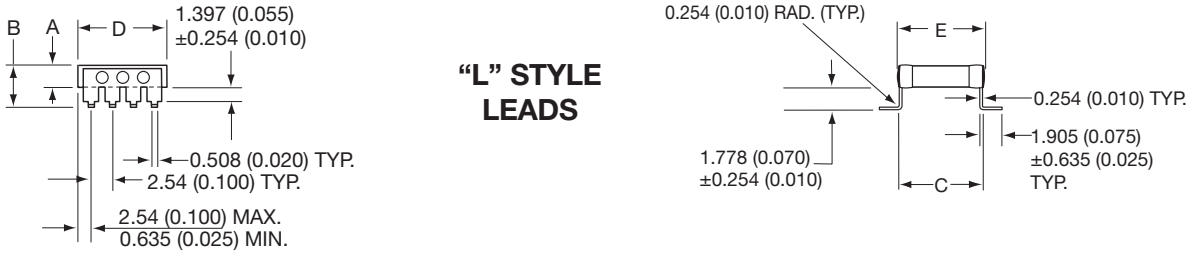
Note: Capacitors with X7R dielectrics are not intended for applications across AC supply mains or AC line filtering with polarity reversal. Contact plant for recommendations. Capacitors may require protective surface coating to prevent external arcing.

Not RoHS Compliant

"N" STYLE LEADS



"J" STYLE LEADS



"L" STYLE LEADS

DIMENSIONS

millimeters (inches)

Style	A (max.)	B (max.)	C ±.635 (±0.025)	D ±.635 (±0.025)	E (max.)	No. of Leads per side
1825	2.54 (0.100)	For "N" Style Leads, "B" Dimension = 4.19 (0.165) For "J" & "L" Leads, "B" Dimension = 4.58 (0.180)	5.08 (0.200)	6.35 (0.250)	6.86 (0.270)	3
2225			6.35 (0.250)	6.35 (0.250)	7.62 (0.300)	3
3640			10.2 (0.400)	10.2 (0.400)	11.2 (0.440)	4

Note: For W (Epoxy Coated) part add 0.127 (0.005) to max. and nominal dimensions A, B, D, & E

Performance of SMPS capacitors can be simulated by downloading SpiCalci software program -
http://www.avx.com/SpiApps/default.asp#spicalci
Custom values, ratings and configurations are also available.

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C0G Dielectric

Performance Characteristics

Capacitance Range	10 pF to 0.047 µF (25°C, 1.0 ±0.2 Vrms at 1kHz, for ≤ 1000 pF use 1 MHz)
Capacitance Tolerances	±5%, ±10%, ±20%
Dissipation Factor	0.15% max. (+25°C, 1.0 ±0.2 Vrms, 1kHz, for ≤ 1000 pF use 1 MHz)
Operating Temperature Range	-55°C to +125°C
Temperature Characteristic	0 ±30 ppm/°C (0 VDC)
Voltage Ratings	600, 630, 1000, 1500, 2000, 2500, 3000, 4000 & 5000 VDC (+125°C)
Insulation Resistance (+25°C, at 500 VDC)	100K MΩ min. or 1000 MΩ - µF min., whichever is less
Insulation Resistance (+125°C, at 500 VDC)	10K MΩ min. or 100 MΩ - µF min., whichever is less
Dielectric Strength	Minimum 120% rated voltage for 5 seconds at 50 mA max. current

HIGH VOLTAGE C0G CAPACITANCE VALUES

VOLTAGE		1825	2225	3640
600/630	min.	1000 pF	1000 pF	1000 pF
	max.	0.012 µF	0.018 µF	0.047 µF
1000	min.	100 pF	1000 pF	1000 pF
	max.	8200 pF	0.010 µF	0.022 µF
1500	min.	100 pF	100 pF	100 pF
	max.	4700 pF	5600 pF	0.010 µF
2000	min.	100 pF	100 pF	100 pF
	max.	1800 pF	2700 pF	6800 pF
2500	min.	10 pF	100 pF	100 pF
	max.	1200 pF	1800 pF	3900 pF
3000	min.	10 pF	10 pF	100 pF
	max.	8200 pF	1200 pF	2700 pF
4000	min.	10 pF	10 pF	100 pF
	max.	330 pF	560 pF	1200 pF
5000	min.	—	10 pF	10 pF
	max.	—	270 pF	820 pF

X7R Dielectric

Performance Characteristics

Capacitance Range	100 pF to 0.56 µF (25°C, 1.0 ±0.2 Vrms at 1kHz)
Capacitance Tolerances	±10%; ±20%; +80%, -20%
Dissipation Factor	2.5% max. (+25°C, 1.0 ±0.2 Vrms, 1kHz)
Operating Temperature Range	-55°C to +125°C
Temperature Characteristic	±15% (0 VDC)
Voltage Ratings	600, 630, 1000, 1500, 2000, 2500, 3000, 4000 & 5000 VDC (+125°C)
Insulation Resistance (+25°C, at 500 VDC)	100K MΩ min. or 1000 MΩ - µF min., whichever is less
Insulation Resistance (+125°C, at 500 VDC)	10K MΩ min. or 100 MΩ - µF min., whichever is less
Dielectric Strength	Minimum 120% rated voltage for 5 seconds at 50 mA max. current

HIGH VOLTAGE X7R MAXIMUM CAPACITANCE VALUES

VOLTAGE		1825	2225	3640
600/630	min.	0.010 µF	0.010 µF	0.010 µF
	max.	0.270 µF	0.330 µF	0.560 µF
1000	min.	1000 pF	1000 pF	0.010 µF
	max.	0.100 µF	0.150 µF	0.220 µF
1500	min.	1000 pF	1000 pF	1000 pF
	max.	0.056 µF	0.068 µF	0.100 µF
2000	min.	100 pF	1000 pF	1000 pF
	max.	0.022 µF	0.033 µF	0.027 µF
2500	min.	100 pF	100 pF	1000 pF
	max.	0.015 µF	0.022 µF	0.022 µF
3000	min.	100 pF	100 pF	1000 pF
	max.	0.010 µF	0.015 µF	0.018 µF
4000	min.	—	—	100 pF
	max.	—	—	6800 pF
5000	min.	—	—	100 pF
	max.	—	—	3300 pF

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D55342E07B523DR-T/R NCA1206X7R104K16TRPF NIN-FB391JTRF NIN-FC2R7JTRF NMC0402NPO220J50TRPF NMC0402X5R105K6.3TRPF NMC0402X5R224K6.3TRPF NMC0402X7R103J25TRPF NMC0402X7R153K16TRPF NMC0402X7R392K50TRPF NMC0603NPO1R8C50TRPF NMC0603NPO201J50TRPF NMC0603NPO330G50TRPF NMC0603NPO331F50TRPF NMC0603X5R475M6.3TRPF NMC0805NPO220J100TRPF NMC0805NPO270J50TRPF NMC0805NPO681F50TRPF NMC0805NPO820J50TRPF NMC1206X7R102K50TRPF NMC1210Y5V105Z50TRPLPF NMC-L0402NPO7R0C50TRPF NMC-L0603NPO2R2B50TRPF NMC-P1206X7R103K1KVTRPLPF NMC-Q0402NPO8R2D200TRPF C1206C101J1GAC C1608C0G2A221J C1608X7R1E334K C2012C0G2A472J 2220J2K00562KXT KHC201E225M76N0T00 1812J2K00332KXT CCR06CG153FSV CDR14BP471CJUR CDR31BX103AKWR CDR33BX683AKUS CGA2B2C0G1H010C CGA2B2C0G1H040C CGA2B2C0G1H050C CGA2B2C0G1H060D CGA2B2C0G1H070D CGA2B2C0G1H120J CGA2B2C0G1H151J CGA2B2C0G1H1R5C CGA2B2C0G1H2R2C CGA2B2C0G1H390J CGA2B2C0G1H391J CGA2B2C0G1H3R3C CGA2B2C0G1H680J CGA2B2C0G1H6R8D