High Voltage MLC Leaded Chips

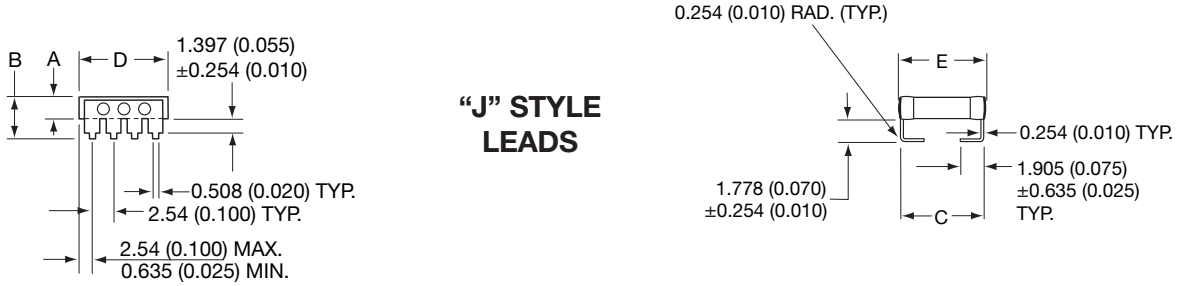
For 600V to 5000V Applications

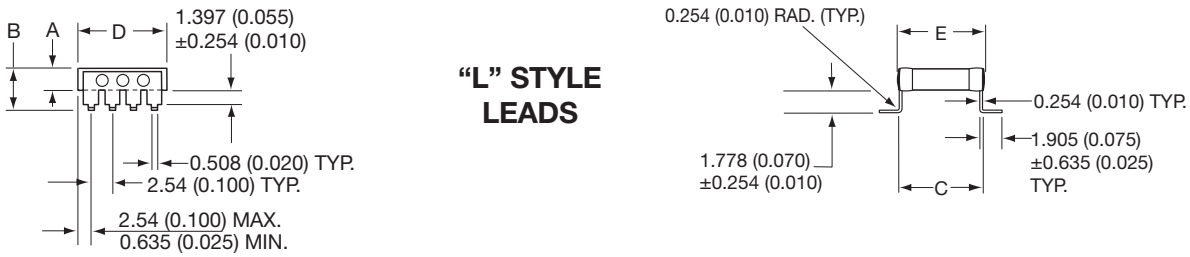
HOW TO ORDER

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





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.

High Voltage MLC Leaded Chips

For 600V to 5000V Applications

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

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Multilayer Ceramic Capacitors MLCC - SMD/SMT ***category:***

Click to view products by AVX ***manufacturer:***

Other Similar products are found below :

M39014/01-1467 M39014/02-1218V M39014/02-1225V M39014/02-1262V M39014/02-1301 M39014/22-0631 1210J5000102JCT 1210J2K00102KXT 1210J5000103KXT 1210J5000223KXT D55342E07B379BR-TR D55342E07B523DR-T/R 1812J1K00103KXT 1812J1K00473KXT 1812J2K00680JCT 1812J4K00102MXT 1812J5000102JCT 1812J5000103JCT 1812J5000682JCT NIN-FB391JTRF NIN-FC2R7JTRF NPIS27H102MTRF C1206C101J1GAC C1608C0G1E472JT000N C2012C0G2A472J 2220J2K00101JCT KHC201E225M76N0T00 LRC-LRF1206LF-01R025FTR1K 1812J1K00222JCT 1812J2K00102KXT 1812J2K00222KXT 1812J2K00472KXT 2-1622820-7-CUT-TAPE 2220J3K00102KXT 2225J2500824KXT CCR07CG103KM CGA2B2C0G1H010C CGA2B2C0G1H040C CGA2B2C0G1H050C CGA2B2C0G1H060D CGA2B2C0G1H070D CGA2B2C0G1H151J CGA2B2C0G1H1R5C CGA2B2C0G1H2R2C CGA2B2C0G1H3R3C CGA2B2C0G1H680J CGA2B2C0G1H6R8D CGA2B2X8R1H221K CGA2B2X8R1H472K CGA3E1X7R1C474K