

High Voltage Surface Mount MLCCs 250 - 6,000 VDC

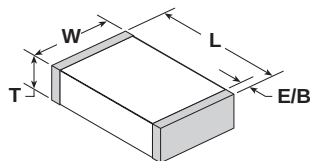
CASE SIZE

CAPACITANCE SELECTION

JDI / EIA	INCHES	(MM)	RATED VOLTAGE	NP0 DIELECTRIC		X7R DIELECTRIC	
				MINIMUM	MAXIMUM	MINIMUM	MAXIMUM
S43 / 1812 	L W T E/B	.177 ±.012 .125 ±.010 .110 Max. .025 ±.015	(4.50 ±.30) (3.18 ±.25) (2.80) (0.64±.38)	250 VDC	-	0.010 µF	0.470 µF
				500 VDC	100 pF	8200 pF	1000 pF
				630 VDC	100 pF	6800 pF	1000 pF
				1000 VDC	10 pF	5600 pF	1000 pF
				2000 VDC	10 pF	1800 pF	100 pF
				3000 VDC	10 pF	1000 pF	100 pF
				4000 VDC	10 pF	390 pF	100 pF
				5000 VDC	10 pF	150 pF	100 pF
S49 / 1825 	L W T E/B	.180 ±.010 .250 ±.010 .140 Max. .025 ±.015	(4.57 ±.25) (6.35 ±.25) (3.56) (0.64±.38)	500 VDC	100 pF	0.018 µF	0.01 µF
				630 VDC	100 pF	0.015 µF	0.01 µF
				1000 VDC	10 pF	0.012 µF	1000 pF
				2000 VDC	10 pF	5600 pF	100 pF
				3000 VDC	10 pF	2200 pF	100 pF
				4000 VDC	10 pF	1200 pF	100 pF
				5000 VDC	10 pF	390 pF	100 pF
				6000 VDC	10 pF	390 pF	100 pF
S47 / 2220 	L W T E/B	.225 ±.015 .200 ±.015 .150 Max. .025 ±.015	(5.72 ±.38) (5.08 ±.38) (3.81) (0.64±.38)	500 VDC	1000 pF	0.018 µF	0.01 µF
				630 VDC	1000 pF	0.018 µF	0.01 µF
				1000 VDC	100 pF	0.015 µF	1000 pF
				2000 VDC	100 pF	5600 pF	1000 pF
				3000 VDC	10 pF	2700 pF	100 pF
				4000 VDC	10 pF	1500 pF	100 pF
				5000 VDC	10 pF	470 pF	100 pF
				6000 VDC	10 pF	470 pF	100 pF
S48 / 2225 	L W T E/B	.225 ±.010 .255 ±.015 .160 Max. .025 ±.015	(5.72 ±.25) (6.48 ±.38) (4.06) (0.64±.38)	500 VDC	1000 pF	0.027 µF	0.01 µF
				630 VDC	1000 pF	0.022 µF	0.01 µF
				1000 VDC	100 pF	0.018 µF	1000 pF
				2000 VDC	100 pF	8200 pF	1000 pF
				3000 VDC	10 pF	3300 pF	100 pF
				4000 VDC	10 pF	1800 pF	100 pF
				5000 VDC	10 pF	470 pF	100 pF
				6000 VDC	10 pF	470 pF	100 pF

Available cap. values include these significant retma values and their multiples: 1.0 1.2 1.5 1.8 2.2 2.7 3.3 3.9 4.7 5.6 6.8 8.2
(1.0 = 1.0, 10, 100, 1000, etc.) Consult factory for non-retma values and sizes or voltages not shown.

ELECTRICAL CHARACTERISTICS



Meets the standard NP0 & X7R dielectric specifications listed on page 78

DIELECTRIC WITHSTANDING VOLTAGE DWV = 1.5 X rated WVDC for ratings 500-999 WVDC,
DWV = 1.2 X rated WVDC for ratings ≥ 1,000 WVDC

NOTE: Capacitors may require a surface coating to prevent external arcing. Solder mask should not be used beneath capacitors. For more information see JDI Tech Note "Surface Arc Season"

HOW TO ORDER HIGH VOLTAGE SURFACE MOUNT

P/N written: 202R18W102KV4E

202	R18	W	102	K	V	4	E
VOLTAGE	SIZE	DIELECTRIC	CAPACITANCE	TOLERANCE	TERMINATION	MARKING	PACKING
501 = 500 V 631 = 630 V 102 = 1000 V 202 = 2000 V 302 = 3000 V 402 = 4000 V 502 = 5000 V 602 = 6000 V	R15 = 0805 R18 = 1206 R29 = 1808 S41 = 1210 S43 = 1812 S47 = 2220 S48 = 2225 S49 = 1825	N = NP0 W = X7R	1st two digits are significant; third digit denotes number of zeros. 102 = 1000 pF 104 = 0.10 µF	J = ± 5% K = ± 10% M = ± 20%	V = Ni Barrier with 100% Sn Plating (Matte) F = Polyterm flexible termination T = SnPb	4 = Unmarked 6 = EIA Code	E = Embossed 7" T = Punched 7" No code = bulk Tape specs. per EIA RS481



www.johanson-dielectrics.com