HIGH VOLTAGE SURFACE MOUNT MLCCs 250 - 6,000 VDC ***





These high voltage capacitors feature a special internal electrode design which reduces voltage concentrations by distributing voltage gradients throughout the entire capacitor.

This unique design also affords increased capacitance values in a given case size and voltage rating. The capacitors are designed and manufactured to the general requirement of EIA198 and are subjected to a 100% electrical testing making them well suited for a wide variety of telecommunication, commercial, and industrial applications.

APPLICATIONS

- Analog & Digital Modems
- Lighting Ballast Circuits
- DC-DC Converters
- LAN/WAN Interface
- Voltage Multipliers
- · Back-lighting Inverters

Polyterm® soft termination option for demanding environments & processes available on select parts, please contact the factory.

CASE SIZE

CAPACITANCE SELECTION

				RATED	RATED NP0 DIELECTRIC		X7R DIELECTRIC	
JDI /EIA		INCHES	(MM)	VOLTAGE	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM
	L	.080 ±.010	(2.03 ±.25)	250 VDC	-	-	1000 pF	0.022 µF
R15/0805	W	$.050 \pm .010$	(1.27 ±.25)	500 VDC	10 pF	680 pF	1000 pF	0.010 μF
	_ T	.055 Max.	(1.40)	630 VDC	10 pF	560 pF	1000 pF	6800 pF
	E/B	.020 ±.010	(0.51±.25)	1000 VDC	10 pF	390 pF	100 pF	2700 pF
				250 VDC	-	-	1000 pF	0.068 μF
R18/1206	L	.125 ±.010	$(3.18 \pm .25)$	500 VDC	10 pF	1500 pF	1000 pF	0.033 μF
	W	$.062 \pm .010$	(1.57 ±.25)	630 VDC	10 pF	1200 pF	1000 pF	0.027 μF
	Т	7 .067 Max. 3 .020 ±.010	(1.70) (0.51±.25)	1000 VDC	10 pF	1000 pF	100 pF	0.010 µF
	E/B			2000 VDC	10 pF	220 pF	100 pF	4700 pF
				3000 VDC	10 pF	82 pF	100 pF	1000 pF
				250 VDC	-	-	1000 pF	0.150 μF
S41/1210	L	.125 ±.010	(3.18 ±.25)	500 VDC	10 pF	3900 pF	1000 pF	0.068 µF
	w	.095 ±.010	(2.41 ±.25)	630 VDC	10 pF	2700 pF	1000 pF	0.047 µF
	Т	.080 Max.	(2.03)	1000 VDC	10 pF	1800 pF	100 pF	0.015 μF
	E/B	.020 ±.010	(0.51±.25)	2000 VDC	10 pF	560 pF	100 pF	4700 pF
				3000 VDC	10 pF	220 pF	100 pF	1000 pF
				500 VDC	10 pF	4700 pF	1000 pF	0.100 μF
R29/1808				630 VDC	10 pF	3300 pF	1000 pF	0.047 µF
	L	.185 ±.020	$(4.70 \pm .51)$	1000 VDC	1.0 pF	2200 pF	100 pF	0.022 µF
	W	.080 ±.010	$(2.03 \pm .25)$	2000 VDC	1.0 pF	820 pF	100 pF	0.010 µF
	Т	.085 Max.	(2.16)	3000 VDC	1.0 pF	470 pF	100 pF	3300 pF
	E/B	.020 ±.010	$(0.51\pm.25)$	4000 VDC	1.0 pF	180 pF	100 pF	1800 pF
				5000 VDC	1.0 pF	75 pF	47 pF	390 pF
				6000 VDC	1.0 pF	75 pF	47 pF	150 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.

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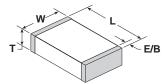
CASE SIZE

CAPACITANCE SELECTION

				RATED	NP0 DIE	NP0 DIELECTRIC		X7R DIELECTRIC	
JDI /EIA		INCHES	(MM)	VOLTAGE	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM	
	·			250 VDC	-	-	0.010 μF	0.470 uF	
S43 / 1812				500 VDC	100 pF	8200 pF	1000 pF	0.330 uF	
		.== 0.10	(4.50.00)	630 VDC	100 pF	6800 pF	1000 pF	0.120 μF	
	L	.177 ±.012 .125 ±.010 .110 Max.	(4.50 ±.30) (3.18 ±.25) (2.80) (0.64±.38)	1000 VDC	10 pF	5600 pF	1000 pF	0.100 µF	
	W T			2000 VDC	10 pF	1800 pF	100 pF	0.010 µF	
	E/B	.025 ±.015		3000 VDC	10 pF	1000 pF	100 pF	4700 pF	
		1020 2.0.10		4000 VDC	10 pF	390 pF	100 pF	1200 pF	
				5000 VDC	10 pF	150 pF	100 pF	820 pF	
				6000 VDC	10 pF	150 pF	10 pF	330 pF	
		.180 ±.010	0 (6.35 ±.25) (3.56)	500 VDC	100 pF	0.018 μF	0.01 μF	0.390 µF	
S49 / 1825				630 VDC	100 pF	0.015 μF	0.01 μF	0.270 µF	
	L			1000 VDC	10 pF	0.012 μF	1000 pF	0.180 μF	
	W	.250 ±.010		2000 VDC	10 pF	5600 pF	100 pF	0.039 µF	
	T E/B	.140 Max. .025 ±.015		3000 VDC	10 pF	2200 pF	100 pF	8200 pF	
				4000 VDC	10 pF	1200 pF	100 pF	2200 pF	
				5000 VDC	10 pF	390 pF	100 pF	1500 pF	
				6000 VDC	10 pF	390 pF	100 pF	820 pF	
	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	0.470 µF	
S47 / 2220				630 VDC	1000 pF	0.018 μF	0.01 μF	0.270 µF	
				1000 VDC	100 pF	0.015 μF	1000 pF	0.120 μF	
				2000 VDC	100 pF	5600 pF	1000 pF	0.039 μF	
				3000 VDC	10 pF	2700 pF	100 pF	0.010 µF	
				4000 VDC	10 pF	1500 pF	100 pF	2700 pF	
				5000 VDC	10 pF	470 pF	100 pF	1500 pF	
				6000 VDC	10 pF	470 pF	100 pF	820 pF	
0.40.4000=				500 VDC	1000 pF	0.027 μF	0.01 μF	0.560 μF	
S48 / 2225		.225 ±.010 .255 ±.015 .160 Max. .025 ±.015	(5.72 ±.25) (6.48 ±.38) (4.06) (0.64±.38)	630 VDC	1000 pF	0.022 μF	0.01 μF	0.390 μF	
	L W			1000 VDC	100 pF	0.018 μF	1000 pF	0.180 μF	
				2000 VDC	100 pF	8200 pF	1000 pF	0.056 µF	
	T E/D			3000 VDC	10 pF	3300 pF	100 pF	0.012 µF	
	E/B			4000 VDC	10 pF	1800 pF	100 pF	3300 pF	
				5000 VDC	10 pF	470 pF	100 pF	2700 pF	
				6000 VDC	10 pF	470 pF	100 pF	1200 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 r

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

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	$J = \pm 5\%$ $K = \pm 10\%$ $M = \pm 20\%$	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

P/N written: 202R18W102KV4E

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NMC0402NPO220J50TRPF NMC0402X5R105K6.3TRPF NMC0402X5R224K6.3TRPF NMC0402X7R103J25TRPF

NMC0402X7R153K16TRPF NMC0603NPO101F50TRPF NMC0603NPO1R8C50TRPF NMC0603NPO201J50TRPF

NMC0603X5R475M6.3TRPF NMC0805NPO270J50TRPF NMC0805NPO681F50TRPF NMC0805NPO820J50TRPF

NMC0805X7R224K16TRPLPF NMC0805X7R224K25TRPF NMC1206X7R102K50TRPF NMC1206X7R475K10TRPLPF NMC-Q0402NPO8R2D200TRPF C1206C101J1GAC C1608C0G2A221J C1608X7R1E334K C2012C0G2A472J 2220J2K00562KXT

1812J2K00332KXT CDR04BX104AKSR CDR31BX103AKWR CDR33BX104AKUR CDR33BX683AKUS CGA2B2C0G1H010C CGA2B2C0G1H040C CGA2B2C0G1H050C CGA2B2C0G1H060D CGA2B2C0G1H070D CGA2B2C0G1H120J CGA2B2C0G1H151J CGA2B2C0G1H1R5C CGA2B2C0G1H820J CGA2B2C0G1H390J CGA2B2C0G1H391J CGA2B2C0G1H3R3C CGA2B2C0G1H680J CGA2B2C0G1H6R8D CGA2B2C0G1H820J CGA2B2X8R1H152K CGA2B2X8R1H221K