

HIGH VOLTAGE SURFACE MOUNT MLCCs 500 - 5,000 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
- LAN/WAN Interface
- Lighting Ballast Circuits
- Voltage Multipliers
- DC-DC Converters
- Back-lighting Inverters

CASE SIZE	DC VOLTS	CAPACITANCE VALUES																																
		10 pF	12 pF	15 pF	18 pF	22 pF	33 pF	47 pF	100 pF	120 pF	180 pF	220 pF	330 pF	470 pF	1000 pF	1200 pF	1500 pF	1800 pF	2200 pF	2700 pF	3300 pF	3900 pF	4700 pF	5600 pF	8200 pF	0.10 μF	0.15 μF	0.18 μF	0.22 μF	0.27 μF	0.47 μF	0.68 μF	0.10 μF	0.12 μF
R15 / 0805 Inches (mm) L .080 ±.010 (2.03 ±.25) W .050 ±.010 (1.27 ±.25) T .050 Max. (1.27) E/B .020 ±.010 (0.51±.25)	500	[Bar chart showing capacitance values for R15/0805 at 500VDC]																																
	1,000	[Bar chart showing capacitance values for R15/0805 at 1,000VDC]																																
	1,000	[Bar chart showing capacitance values for R15/0805 at 1,000VDC]																																
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R18 / 1206 Inches (mm) L .125 ±.010 (3.17 ±.25) W .062 ±.010 (1.57 ±.25) T .055 Max. (1.40) E/B .020 ±.010 (0.51±.25)	500	[Bar chart showing capacitance values for R18/1206 at 500VDC]																																
	1,000	[Bar chart showing capacitance values for R18/1206 at 1,000VDC]																																
	2,000	[Bar chart showing capacitance values for R18/1206 at 2,000VDC]																																
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S41 / 1210 Inches (mm) L .125 ±.010 (3.18 ±.25) W .095 ±.010 (2.41 ±.25) T .065 Max. (1.65) E/B .020 ±.010 (0.51±.25)	500	[Bar chart showing capacitance values for S41/1210 at 500VDC]																																
	1,000	[Bar chart showing capacitance values for S41/1210 at 1,000VDC]																																
	2,000	[Bar chart showing capacitance values for S41/1210 at 2,000VDC]																																
	2,000	[Bar chart showing capacitance values for S41/1210 at 2,000VDC]																																
R29 / 1808 Inches (mm) L .180 ±.010 (4.57 ±.25) W .080 ±.010 (2.41 ±.25) T .065 Max. (1.65) E/B .020 ±.010 (0.51±.25)	500	[Bar chart showing capacitance values for R29/1808 at 500VDC]																																
	1,000	[Bar chart showing capacitance values for R29/1808 at 1,000VDC]																																
	2,000	[Bar chart showing capacitance values for R29/1808 at 2,000VDC]																																
	3,000	[Bar chart showing capacitance values for R29/1808 at 3,000VDC]																																
	4,000	[Bar chart showing capacitance values for R29/1808 at 4,000VDC]																																
S43 / 1812 Inches (mm) L .175 ±.010 (4.45 ±.25) W .125 ±.010 (3.17 ±.25) T .085 Max. (2.16) E/B .025 ±.015 (0.64±.38)	500	[Bar chart showing capacitance values for S43/1812 at 500VDC]																																
	1,000	[Bar chart showing capacitance values for S43/1812 at 1,000VDC]																																
	2,000	[Bar chart showing capacitance values for S43/1812 at 2,000VDC]																																
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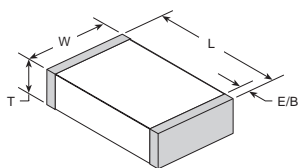
CASE SIZE	DC VOLTS	CAPACITANCE VALUES																																	
		10 pF	22 pF	33 pF	47 pF	100 pF	120 pF	180 pF	220 pF	330 pF	470 pF	1000 pF	1200 pF	1500 pF	1800 pF	2200 pF	2700 pF	3300 pF	3900 pF	4700 pF	5600 pF	8200 pF	.010 uF	.015 uF	.018 uF	.022 uF	.027 uF	.047 uF	.068 uF	.10 uF	.12 uF	.15 uF	.22 uF	.33 uF	.47 uF
S49 / 1825 Inches (mm) L .180 ± .010 (4.57 ± .25) W .250 ± .010 (6.35 ± .25) T .110 Max. (2.80) E/B .025 ± .015 (0.64 ± .38)	500											102											153									224			
	1,000											102											103							683					
	2,000				101							222							103																
	3,000				101							152				332																			
	4,000				101					821			182																						
	5,000				101			121			391																								
S47 / 2220 Inches (mm) L .225 ± .010 (5.72 ± .25) W .200 ± .010 (5.08 ± .25) T .110 Max. (2.80) E/B .025 ± .015 (0.64 ± .38)	500											102											273									274			
	1,000											102											153							104					
	2,000				101							392							183																
	3,000				101							222				682																			
	4,000			220					102			222																							
	5,000			220			391			102																									
S48 / 2225 Inches (mm) L .225 ± .010 (5.72 ± .25) W .250 ± .010 (6.35 ± .25) T .110 Max. (2.80) E/B .025 ± .015 (0.64 ± .38)	500											102											223									394			
	1,000											102											123							124					
	2,000				101							332							273																
	3,000				101							272				822																			
	4,000				101					102			272																						
	5,000				101			391			122																								
S54 / 3640 Inches (mm) L .360 ± .030 (9.14 ± .76) W .400 ± .030 (10.16 ± .76) T .150 Max. (3.81) E/B .025 ± .015 (0.64 ± .38)	500											102											683									684			
	1,000											102											822							224					
	2,000				101							332							683																
	3,000				101							222				473																			
	4,000				101					152			153																						
	5,000				101			681			822																								

For other size/voltage/capacitance combinations please contact the factory.

ELECTRICAL CHARACTERISTICS

Meets the standard NPO & X7R dielectric specifications listed on page 20 & 21 except Dielectric Withstanding Voltage DWV = 750 VDC for 500 WVDC rated units and DWV = 1.2 X rated WVDC for ratings ≥ 1,000 WVDC

NOTE: Capacitors may require a surface coating to prevent external arcing.



HOW TO ORDER

202	R29	N	101	K	V	4	E															
VOLTAGE 501 = 500 V 102 = 1000 V 202 = 2000 V 302 = 3000 V 402 = 4000 V 502 = 5000 V	CASE SIZE See Chart	DIELECTRIC N = NPO/COG W = X7R	CAPACITANCE 1st two digits are significant; third digit denotes number of zeros, R = decimal. 1R0 = 1.0 pF 101 = 100 pF	TOLERANCE NPO: J = ± 5% K = ± 10% X7R: K = ± 10% M = ± 20%	TERMINATION V = Nickel Barrier	MARKING 4 = Unmarked 6 = EIA "J" Code*	TAPE MODIFIER <table border="1"> <thead> <tr> <th>Code</th> <th>Tape</th> <th>Reel</th> </tr> </thead> <tbody> <tr> <td>E</td> <td>Embossed</td> <td>7"</td> </tr> <tr> <td>U</td> <td>Embossed</td> <td>13"</td> </tr> <tr> <td>T</td> <td>Paper</td> <td>7"</td> </tr> <tr> <td>R</td> <td>Paper</td> <td>13"</td> </tr> </tbody> </table> Tape specs. per EIA RS481	Code	Tape	Reel	E	Embossed	7"	U	Embossed	13"	T	Paper	7"	R	Paper	13"
Code	Tape	Reel																				
E	Embossed	7"																				
U	Embossed	13"																				
T	Paper	7"																				
R	Paper	13"																				
Part number written: 202R29N101KV4E																						

