

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
- Lighting Ballast Circuits
- DC-DC Converters
- LAN/WAN Interface
- Voltage Multipliers
- Back-lighting Inverters

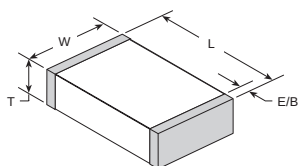
CASE SIZE			DC VOLTS	10 pF	12 pF	15 pF	18 pF	22 pF	33 pF	47 pF	100 pF	120 pF	180 pF	220 pF	330 pF	470 pF	1000 pF	1200 pF	1500 pF	1800 pF	2200 pF	2700 pF	3300 pF	3800 pF	4700 pF	5600 pF	8200 pF	.010 uF	.015 uF	.018 uF	.022 uF	.027 uF	.047 uF	.068 uF	.10 uF	.12 uF	.22 uF	.39 uF
R15 / 0805 Inches (mm) L .080 ±.010 (2.03 ±.25) W .050 ±.010 (1.27 ±.25) T .050 Max. (1.27) E/B .020 ±.010 (0.51±.25)			500	101 471 103																												NPO						
			1,000	470 271 272																												NPO or X7R						
																																X7R						
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	101 102 223																																		
			1,000	470 681 472																																		
			2,000	180 221 102																																		
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	101 222 473																																		
			1,000	101 152 153																																		
			2,000	220 561 222																																		
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	470 272 683																																		
			1,000	470 152 183																																		
			2,000	220 821 272																																		
			3,000	180 331 102																																		
			4,000	180 181 471																																		
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	102 682 124																																		
			1,000	101 392 333																																		
			2,000	470 122 682																																		
			3,000	220 561 182																																		
			4,000	220 271 681																																		

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[illegible]

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 $\geq 1,000$ WVDC

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

HOW TO ORDER

The diagram illustrates the meaning of each digit in the part number 202R29N101KV4E:

- 202**: VOLTAGE
501 = 500 V
102 = 1000 V
202 = 2000 V
302 = 3000 V
402 = 4000 V
502 = 5000 V
- R29**: CASE SIZE
See Chart
- N**: DIELECTRIC
N = NPO/COG
W = X7R
- 101**: CAPACITANCE
1st two digits are significant; third digit denotes number of zeros, R = decimal.
1R0 = 1.0 pF
101 = 100 pF
- K**: TOLERANCE
NPO: J = $\pm 5\%$
K = $\pm 10\%$
X7R: K = $\pm 10\%$
M = $\pm 20\%$
- V**: TERMINATION
V = Nickel Barrier
- 4**: MARKING
4 = Unmarked
6 = EIA "J" Code*
- E**: TAPE MODIFIER

Code	Tape	Reel
E	Embossed	7"
U	Embossed	13"
T	Paper	7"
R	Paper	13"

Tape specs. per EIA RS481

Part number written: 202R29N101KV4E