

EXTENDED CAPACITANCE RANGES HIGHER VOLTAGE RATINGS SMALLER CASE SIZES

- MICRO-POLISHED FOR REDUCED SURFACE ARC
- HIGH AC WITHSTANDING CAPABILITY
- FLEXIBLE TERMINATIONS AVAILABLE
- FAIL-SAFE DESIGNS AVAILABLE

MECHANICAL CHARACTERISTICS

AVAILABLE CAPACITANCE




			RATED VOLTAGE	NPO DIELECTRIC		X7R DIELECTRIC		
				Minimum	Maximum	Minimum	Old Max	New Max
R15/0805	Inches (mm)	L .080 ±.010 (2.03 ±.25) W .050 ±.010 (1.27 ±.25) T .055 Max. (1.40) E/B .020 ±.010 (0.51±.25)	250 VDC	-	-	1000 pF	0.022 µF	0.022 µF
			500 VDC	10 pF	680 pF	1000 pF	8200 pF	0.010 µF
			630 VDC	10 pF	560 pF	1000 pF	3900 pF	6800 pF
			1000 VDC	10 pF	390 pF	100 pF	2700 pF	4700 pF
R18/1206	Inches (mm)	L .125 ±.010 (3.17 ±.25) W .062 ±.010 (1.57 ±.25) T .067 Max. (1.70) E/B .020 ±.010 (0.51±.25)	250 VDC	-	-	1000 pF	0.068 µF	0.068 µF
			500 VDC	10 pF	1500 pF	1000 pF	0.027 µF	0.047 µF
			630 VDC	10 pF	1200 pF	1000 pF	0.010 µF	0.027 µF
			1000 VDC	10 pF	1000 pF	100 pF	5600 pF	0.018 µF
			2000 VDC	10 pF	220 pF	100 pF	1000 pF	4700 pF
			3000 VDC	10 pF	82 pF	100 pF	220 pF	1000 pF
S41/1210	Inches (mm)	L .125 ±.010 (3.18 ±.25) W .095 ±.010 (2.41 ±.25) T .080 Max. (2.03) E/B .020 ±.010 (0.51±.25)	250 VDC	-	-	1000 pF	0.120 µF	0.220 µF
			500 VDC	10 pF	3900 pF	1000 pF	0.047 µF	0.100 µF
			630 VDC	10 pF	2700 pF	1000 pF	0.027 µF	0.056 µF
			1000 VDC	10 pF	1800 pF	100 pF	0.010 µF	0.047 µF
			2000 VDC	10 pF	560 pF	100 pF	2200 pF	3900 pF
			3000 VDC	10 pF	220 pF	100 pF	560 pF	2700 pF
R29/1808	Inches (mm)	L .189 ±.010 (4.80 ±.25) W .080 ±.010 (2.03 ±.25) T .085 Max. (2.16) E/B .020 ±.010 (0.51±.25)	500 VDC	10 pF	4700 pF	1000 pF	0.056 µF	0.100 µF
			630 VDC	10 pF	3300 pF	1000 pF	0.039 µF	0.068 µF
			1000 VDC	1.0 pF	2200 pF	100 pF	0.018 µF	0.047 µF
			2000 VDC	1.0 pF	820 pF	100 pF	6800 pF	8200 pF
			3000 VDC	1.0 pF	470 pF	100 pF	3300 pF	3900 pF
			4000 VDC	1.0 pF	180 pF	100 pF	270 pF	2200 pF
			5000 VDC	1.0 pF	75 pF	47 pF	120 pF	1000 pF
6000 VDC	1.0 pF	75 pF	47 pF	100 pF				
S43 / 1812	Inches (mm)	L .180 ±.010 (4.57 ±.25) W .125 ±.010 (3.17 ±.25) T .110 Max. (2.80) E/B .025 ±.015 (0.64±.38)	250 VDC	-	-	0.010 µF	0.270 uF	0.470 µF
			500 VDC	100 pF	8200 pF	1000 pF	0.150 uF	0.330 uF
			630 VDC	100 pF	6800 pF	1000 pF	0.100 µF	0.180 µF
			1000 VDC	10 pF	5600 pF	1000 pF	0.022 µF	0.100 µF
			2000 VDC	10 pF	1800 pF	100 pF	6800 pF	0.010 µF
			3000 VDC	10 pF	1000 pF	100 pF	4700 pF	6800 pF
			4000 VDC	10 pF	390 pF	100 pF	1500 pF	2200 pF
			5000 VDC	10 pF	150 pF	100 pF	680 pF	1000 pF
6000 VDC	10 pF	150 pF	100 pF	680 pF	680 pF			

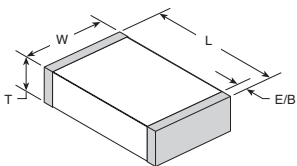
NEXT GENERATION HIGH VOLTAGE MLCCs 250 - 6,000 VDC



MECHANICAL CHARACTERISTICS

AVAILABLE CAPACITANCE

	RATED VOLTAGE	NPO DIELECTRIC		X7R DIELECTRIC		
		Minimum	Maximum	Minimum	Old Max.	New Max.
S49 / 1825  Inches (mm) L .180 ±.010 (4.57 ±.25) W .250 ±.010 (6.35 ±.25) T .140 Max. (3.56) E/B .025 ±.015 (0.64±.38)	500 VDC	100 pF	0.018 μF	0.01 μF	0.330 μF	1.000 μF
	630 VDC	100 pF	0.015 μF	0.01 μF	0.220 μF	0.270 μF
	1000 VDC	10 pF	0.012 μF	1000 pF	0.039 μF	0.047 μF
	2000 VDC	10 pF	5600 pF	100 pF	0.018 μF	0.022 μF
	3000 VDC	10 pF	2200 pF	100 pF	8200 pF	0.010 μF
	4000 VDC	10 pF	1200 pF	100 pF	2000 pF	2700 pF
	5000 VDC	10 pF	390 pF	100 pF	820 pF	1200 pF
	6000 VDC	10 pF	390 pF	100 pF	820 pF	820 pF
S47 / 2220  Inches (mm) L .225 ±.015 (5.72 ±.38) W .200 ±.015 (5.08 ±.38) T .150 Max. (3.81) E/B .025 ±.015 (0.64±.38)	500 VDC	1000 pF	0.018 μF	0.01 μF	0.330 μF	0.680 μF
	630 VDC	1000 pF	0.018 μF	0.01 μF	0.270 μF	0.470 μF
	1000 VDC	100 pF	0.015 μF	1000 pF	0.056 μF	0.100 μF
	2000 VDC	100 pF	5600 pF	1000 pF	0.027 μF	0.047 μF
	3000 VDC	10 pF	2700 pF	100 pF	0.010 μF	0.015 μF
	4000 VDC	10 pF	1500 pF	100 pF	2200 pF	3300 pF
	5000 VDC	10 pF	470 pF	100 pF	1500 pF	2200 pF
	6000 VDC	10 pF	470 pF	100 pF	1500 pF	1500 pF
S48 / 2225  Inches (mm) L .225 ±.010 (5.72 ±.25) W .255 ±.015 (6.48 ±.38) T .160 Max. (4.06) E/B .025 ±.015 (0.64±.38)	500 VDC	1000 pF	0.027 μF	0.01 μF	0.470 μF	1.000 μF
	630 VDC	1000 pF	0.022 μF	0.01 μF	0.330 μF	0.680 μF
	1000 VDC	100 pF	0.018 μF	1000 pF	0.120 μF	0.220 μF
	2000 VDC	100 pF	8200 pF	1000 pF	0.039 μF	0.100 μF
	3000 VDC	10 pF	3300 pF	100 pF	0.015 μF	0.022 μF
	4000 VDC	10 pF	1800 pF	100 pF	5600 pF	0.010 μF
	5000 VDC	10 pF	470 pF	100 pF	1500 pF	3300 pF
	6000 VDC	10 pF	470 pF	100 pF	1500 pF	1500 pF



ELECTRICAL CHARACTERISTICS

Dielectric Withstanding Voltage DWV = 1.5 X rated WVDC for ratings ≤ 500 WVDC,
 DWV = 1.2 X rated WVDC for ratings ≥ 1,000 WVDC

For other specifications please see General MLCC Specifications available online.

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

Part number written: 202R29N101KV4E

202	R29	N	101	K	V	4	E														
VOLTAGE 501 = 500 V 631 = 630 V 102 = 1000 V 202 = 2000 V 302 = 3000 V 402 = 4000 V 502 = 5000 V 602 = 6000 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 = Ni barrier w/ 100% Sn Plating F = Polyterm flexible termination T = SnPb	MARKING 4 = Unmarked 6 = EIA 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"																			

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