



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

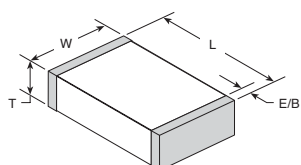
AVAILABLE CAPACITANCE

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

MECHANICAL CHARACTERISTICS

AVAILABLE CAPACITANCE

			RATED VOLTAGE	NPO DIELECTRIC		X7R DIELECTRIC		
				Minimum	Maximum	Minimum	Old Max.	New Max.
S49 / 1825		Inches (mm)	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)	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)	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 Code Tape Reel E Embossed 7" U Embossed 13" T Paper 7" R Paper 13" Tape specs. per EIA RS481	

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