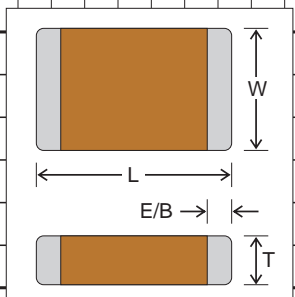


SURFACEMOUNT CERAMIC MLCC'S (10 - 200 VOLTS DC)

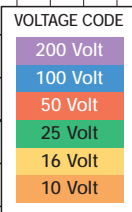
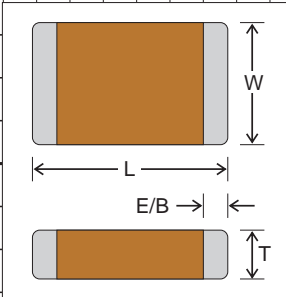
		Capacitance Value	0.5 pF	1.0-9.9 pF	10 pF	12 pF	15 pF	18 pF	22 pF	27 pF	33 pF	39 pF	47 pF	56 pF	68 pF	82 pF	100 pF	120 pF	150 pF	180 pF	220 pF	270 pF	330 pF	390 pF	470 pF	560 pF	680 pF	820 pF	1000 pF	1200 pF	1500 pF	1800 pF	2200 pF	2700 pF	3300 pF	3900 pF	4700 pF	5600 pF
R07 / 0402 L .040 ± .004" W .020 ± .004" T .025" Max E/B .010" Typ.	NPO	●											■																									
	X7R	●											■		●																							
	Z5U	●											■		●																							
	Y5V	●											■		●																							
R14 / 0603 L .063 ± .010" W .032 ± .010" T .035" Max E/B .015" Typ.	NPO	●											■		●																							
	X7R	●											■		●																							
	Z5U	●											■		●																							
	Y5V	●											■		●																							
R15 / 0805 L .080 ± .010" W .050 ± .010" T .051" Max E/B .020" Typ.	NPO	■																																				
	NPO	●											■		●																							
	X7R	●											■		●																							
	X7R	●											■		●																							
	X5R	●											■		●																							
	Z5U	●											■		●																							
	Y5V	●											■		●																							
R18 / 1206 L .125 ± .010" W .062 ± .010" T .070" Max E/B .020" Typ.	NPO	■																																				
	NPO	●											■		●																							
	X7R	●											■		●																							
	X7R	●											■		●																							
	X5R	●											■		●																							
	Z5U	●											■		●																							
	Y5V	●											■		●																							
S41 / 1210 L .125 ± .010" W .095 ± .010" T .070" Max E/B .020" Typ.	NPO	■																																				
	NPO	●											■		●																							
	X7R	●											■		●																							
	X7R	●											■		●																							
	Z5U	●											■		●																							
	Y5V	●											■		●																							
S43 / 1812 L .175 ± .010" W .125 ± .010" T .085" Max E/B .020" Typ.	NPO	■																																				
	X7R	●											■		●																							
	Z5U	●											■		●																							
	Y5V	●											■		●																							

VOLTAGE CODE

- 200 Volt
- 100 Volt
- 50 Volt
- 25 Volt
- 16 Volt
- 10 Volt



Notes: ● Indicates popular values. Complete Electrical & Mechanical Characteristics may be found at www.johanson-caps.com

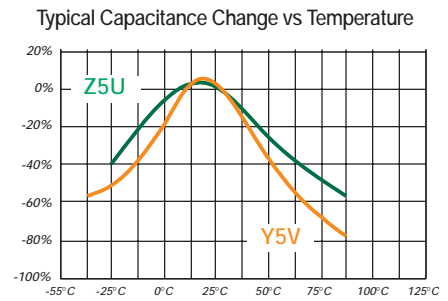
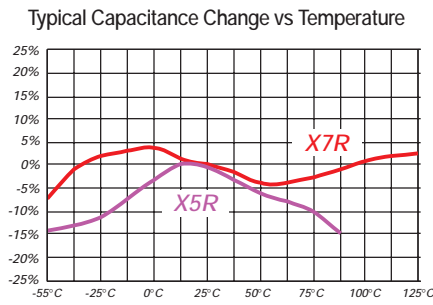
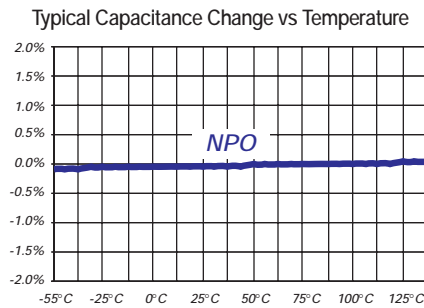
6800 pF	8200 pF	.010 μF	.012 μF	.015 μF	.018 μF	.022 μF	.027 μF	.033 μF	.039 μF	.047 μF	.056 μF	.068 μF	.082 μF	0.10 μF	0.12 μF	0.15 μF	0.18 μF	0.22 μF	0.27 μF	0.33 μF	0.39 μF	0.47 μF	0.56 μF	0.68 μF	0.82 μF	1.00 μF	1.20 μF	1.50 μF	1.80 μF	2.20 μF	2.70 μF	3.30 μF	3.90 μF	4.70 μF	10.0 μF																															
																															NPO	R07 / 0402	L .040 ± .004"	W .020 ± .004"	T .025" Max	E/B .010" Typ.																														
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																													Y5V																																					

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

CERAMIC DIELECTRIC CHARACTERISTICS

SPECIFICATION	NPO	X7R	X5R	Z5U	Y5V - Tanceram®
Temperature Coefficient:	0 ± 30 ppm/°C	± 15%	± 15%	+ 22% - 56%	+ 22% - 82%
Temperature Range:	-55 to +125°C	-55 to +125°C	-55 to +85°C	+10 to +85°C	-30 to 85°C
Dissipation Factor, Max.:	All Rated Voltages: 0.1%	For ≥ 50 WVDC: 2.5% For 25 WVDC: 3.0% For 16 WVDC: 3.5%	For ≥ 25 WVDC: 3.0% For 16 WVDC: 3.5% For 10 WVDC: 5.0%	For ≥ 25 WVDC: 4.0% For 16 WVDC: 5.0%	For ≥ 25 WVDC: 5.0% For 16 WVDC: 7.0% For 10 WVDC: 9.0%
Ageing, Typical per decade hr:	None	2.5%	2.5%	5.0%	7.0%
Insulation Resistance, Min. (1):	1000ΩF or 100 GΩ	1000ΩF or 100 GΩ	1000ΩF or 100GΩ	100ΩF or 10 GΩ	100 ΩF or 10 GΩ
Dielectric Strength, Min. (2):	2.5 X WVDC	2.5 X WVDC	2.5 X WVDC	2.5 X WVDC	2.5 X WVDC

Test Notes: 25°C, WVDC., Test Freq. = 1Khz ±50Hz, 1.0±0.2 VRMS, (1Mhz ±50KHz, 1.0±0.2 VRMS For NPO Values ≤ 100 pF), (1) whichever less, (2) 50 mA Max



HOW TO ORDER

500	R15	N	101	J	V	4	E
VOLTAGE 100 = 10 V 160 = 16 V 250 = 25 V 500 = 50 V 101 = 100 V 201 = 200 V 251 = 250 V 501 = 500 V 102 = 1000 V 202 = 2000 V 302 = 3000 V	CASE SIZE R07=0402 R14=0603 R15=0805 R18=1206 S41=1210 R29=1808 S43=1812 S49=1825 S48=2225	DIELECTRIC N = NPO W = X7R X = X5R Z = Z5U Y = Y5V	CAPACITANCE 1st two digits are significant; third digit denotes number of zeros, R = decimal. 1R0 = 1.0 pF 100 = 10 pF 102 = 1,000 pF 474 = 0.47 μF	TOLERANCE * B = ± 0.10 pF * C = ± 0.25 pF * D = ± 0.50 pF F = ± 1 % G = ± 2 % J = ± 5 % K = ± 10 % M = ± 20 % Z = +80 -20 % *Values < 10 pF only	TERMINATION V = Nickel Barrier	MARKING 4 = Unmarked 6 = EIA "J" Code* *Not available on 0402 & 0603 sizes	TAPE MODIFIER Tape Tape Reel Code Type Size U Embossed 13" R Punched 7" E Embossed 7" T Punched 7" Z Embossed 5" Y Punched 5" Tape specifications conform to EIA RS481

Part number written: 500R15N101JV4E

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[KHC201E225M76N0T00](#) [LRC-LRF1206LF-01R025FTR1K](#) [1812J1K00222JCT](#) [1812J2K00102KXT](#) [1812J2K00222KXT](#)
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[CGA2B2C0G1H040C](#) [CGA2B2C0G1H050C](#) [CGA2B2C0G1H060D](#) [CGA2B2C0G1H070D](#) [CGA2B2C0G1H151J](#) [CGA2B2C0G1H1R5C](#)
[CGA2B2C0G1H2R2C](#) [CGA2B2C0G1H3R3C](#) [CGA2B2C0G1H680J](#) [CGA2B2C0G1H6R8D](#) [CGA2B2X8R1H221K](#) [CGA2B2X8R1H472K](#)
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