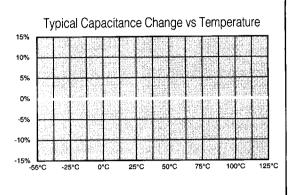


Electrical Characteristics

NPO DIELECTRIC CHARACTERISTICS

NPO capacitors feature Class I dielectric and exhibit extremely stable characteristics over time, temperature changes, and applied voltage. Ideally suited for precision applications such as filters, oscillators, and timing circuits

Temperature Coefficient:	0% ± 30 ppm / °C, -55 to +125°C
Dissipation Factor:	.001 (0.1%) max, 25°C
Ageing:	None
Insulation Resistance:	1000 Ω F or 100 G Ω , whichever is less @ 25°C,
	WVDC; 125°C IR is 10% of 25°C rating.
Dielectric Strength:	2.5 X WVDC min, 25°C, 50 mA max
Test Parameters:	1Khz ±50Hz, 1.0±0.2 VRMS, Values > 100 pF
	1Mhz ±50kHz, 1.0±0.2 VRMS, Values ≤ 100 pF

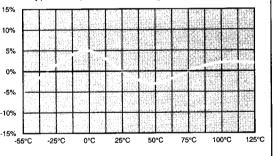


X7R DIELECTRIC CHARACTERISTICS

X7R capacitors feature Class II dielectric and exhibit relatively stable characteristics and a substantial increase in available capacitance values than that of NPO. Ideally suited for bypass and decoupling applications, filtering, DC blocking, and voltage suppression.

Temperature Coefficient:	± 15% , -55 to +125°C
Dissipation Factor:	.025 (2.5%) max, 25°C
Ageing:	2.5% / decade hour, typical
Insulation Resistance:	1000 Ω F or 100 G Ω , whichever is less @ WVDC,
	25°C; 125°C IR is 10% of 25°C rating.
Dielectric Strength:	2.5 X WVDC min, 25°C, 50 mA max
Test Parameters:	1Khz ±50Hz, 1.0±0.2 VRMS

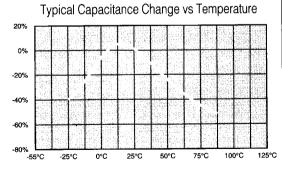
Typical Capacitance Change vs Temperature



Z5U DIELECTRIC CHARACTERISTICS

Z5U capacitors feature Class III dielectric characteristics and a further increase in available capacitance values than that of X7R. Ideally suited for bypass and decoupling applications in circuits operating with low DC bias at or near room temperature.

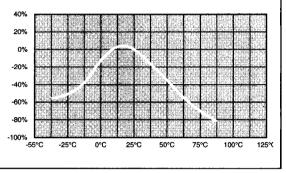
Temperature Coefficient:	+ 22% - 56% , +10 to +85°C
Dissipation Factor:	.04 (4%) max, 25°C
Ageing:	5% / decade hour, typical
Insulation Resistance:	100 Ω F or 10 G Ω , whichever is less,
	@ WVDC, 25°C.
Dielectric Strength:	2.5 X WVDC min, 25°C, 50 mA max
Test Parameters:	1Khz ±50Hz, 0.5±0.1 VRMS



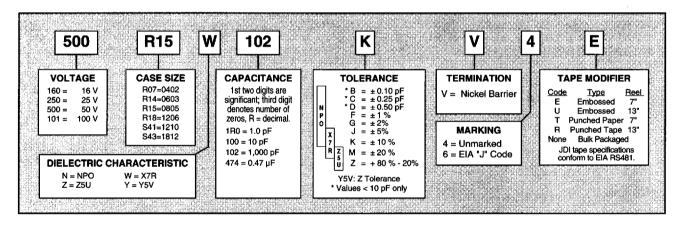
Y5V DIELECTRIC CHARACTERISTICS

Y5V capacitors feature Class III dielectric and offer the highest capacitance values available. Ideally suited for bypass and decoupling applications where space is at a premium or as replacements for tantalum capacitors. Best performance is obtained at or near room temperature and at low DC bias conditions.

Typical Capacitance Change vs Temperature



HOW TO ORDER (Surface Mount)





15191 Bledsoe Street • Sylmar, California 91342 • (818) 364 9800 • FAX (818) 364 6100



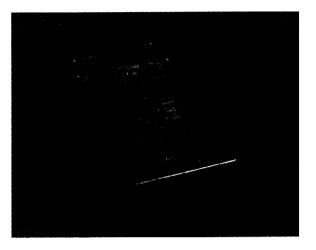
Chip Capacitors for Hybrid Circuits

🔳 4978318 0000347 LT9 📖

HYBRID CHIP CAPACITORS

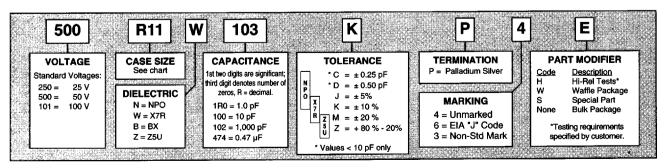
Offered with Palladium-Silver terminations suited for epoxy, low-medium temperature solder, and bond attachment processes. Dielectric specifications are shown on pages 4 & 5. BX dielectric characteristics are available at 50% of X7R voltage rating. Capacitance selection is offered in multiples of the following significant values: 10, 12, 15, 18, 22, 27, 33, 39, 47, 56, 68, 82, 100. Popular values are also available in 1206,1808, & 1812 sizes. Please consult the factory for capacitance, tolerance, or voltage requirements not shown.

7le D



CASE	E SI	ZE	DIELEC	LEC. AVAILABLE CAPACITANCE						
JDI	E	Al	TYPE	1.0	10 pF	100 pF	1000 pF	.01 µF	.10 µF	1.0 µF
R09	(040)3)	NPO	1R0		680 101			10	0 Volt
Length Width	.040 .030	(1.02) (.762)	X7R			181	102 56	2	50) Volt
Thick E/B	.030 .005	(.762) (.127)	Z5U				102	223		
R11	(050	94)	NPO	1R0		331 (561			
Length Width	.050 .040	(1.27) (1.02)	X7R			101		103 153		
Thick E/B	.040 .005	(1.02) (0.38)	Z5U				102		473	
R15	(080))5)	NPO	1R0			102 152			
Length Width	.080 .050	(2.03) (1.27)	X7R			101		273	563	
Thick E/B	.050 .015	(1.27) (0.38)	Z5U				I	472	154	
S41	(121	0)	NPO		• •	101	472	103		
Length Width	.125 .095	(3.18) (2.41)	X7R				102		104 33	34
Thick E/B	.065 .020	(1.65) (.508)	Z5U					103		105

HOW TO ORDER



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Multilayer Ceramic Capacitors MLCC - SMD/SMT category:

Click to view products by Johanson manufacturer:

Other Similar products are found below :

D55342E07B523DR-T/R NCA1206X7R103K50TRPF NCA1206X7R104K16TRPF NIN-FB391JTRF NIN-FC2R7JTRF NMC0402NPO220J50TRPF NMC0402X5R105K6.3TRPF NMC0402X5R224K6.3TRPF NMC0402X7R103J25TRPF NMC0402X7R153K16TRPF NMC0603NPO330G50TRPF NMC0603NPO331F50TRPF NMC0603X5R475M6.3TRPF NMC0805NPO220J100TRPF NMC0805NPO270J50TRPF NMC0603NPO681F50TRPF NMC0805NPO820J50TRPF NMC0805X7R224K25TRPF NMC1206X7R102K50TRPF NMC1210Y5V105Z50TRPLPF NMC-H0805X7R472K250TRPF NMC-L0402NPO7R0C50TRPF NMC12063NPO2R2B50TRPF NMC-Q0402NPO8R2D200TRPF C1206C101J1GAC C1608C0G2A221J C1608X7R1E334K C2012C0G2A472J 2220J2K00562KXT KHC201E225M76N0T00 1812J2K00332KXT CCR06CG153FSV CDR14BP471CJUR CDR31BX103AKWR CDR33BX683AKUS CGA2B2C0G1H010C CGA2B2C0G1H040C CGA2B2C0G1H050C CGA2B2C0G1H060D CGA2B2C0G1H070D CGA2B2C0G1H120J CGA2B2C0G1H151J CGA2B2C0G1H07C CGA2B2C0G1H050C CGA2B2C0G1H390J CGA2B2C0G1H391J CGA2B2C0G1H3R3C CGA2B2C0G1H680J CGA2B2C0G1H6R8D CGA2B2C0G1H820J