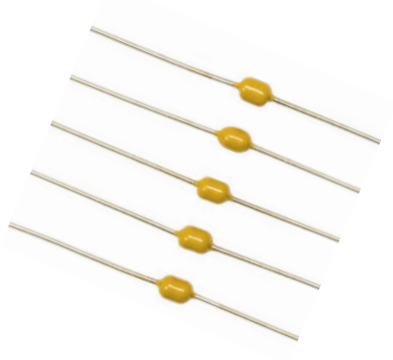


AXIAL LEADED - COMMERCIAL

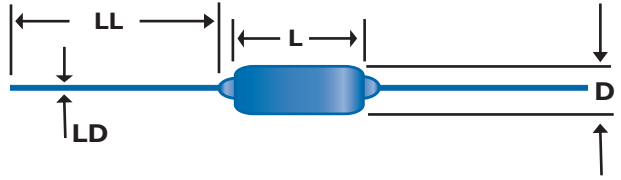


NOVACAP Axial Leaded Capacitors are available in COG, X7R and X8R characteristics. Conformal coating and lead mounting provide a rugged configuration for optimum performance, with high capacitance efficiency per KV rating. Units are designed for commercial/industrial use to 2 KV, with application in power supply and voltage multiplier circuits. High reliability versions with restricted capacitance ranges are also available. Please refer to other NOVACAP literature, or consult the factory.

CASE SIZE OPTIONS

SIZE	0805	1206
L MAX.	.150 (3.80)	.200 (5.10)
D MAX.	.100 (2.54)	.125 (3.20)
WD +/- .002	.020 (0.50)	.020 (0.50)
LL MIN.	1.00 (25.0)	1.00 (25.0)

Dimensions in inches; bracketed dimensions in millimeters.

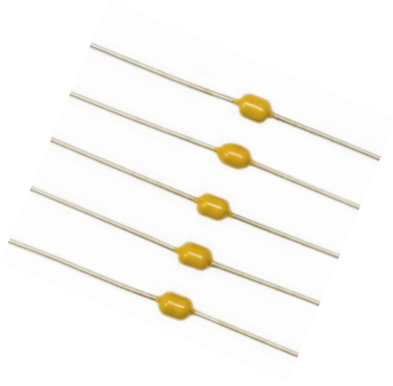


LEAD CONFIGURATION

CAPACITANCE & VOLTAGE

3 digit code: two significant digits, followed by number of zeros
 eg: 183 = 18,000 pF. R denotes decimal, eg. 2R7 = 2.7 pF

MAX CAP & VOLTAGE	DIELECTRIC		NPO		X7R		X8R	
	0805	1206	0805	1206	0805	1206	0805	1206
50V	•	•	•	•	473	154		
100V	•	•	•	•	333	104		
250V	152	392	273	683	183	333		
500V	821	182	123	223	562	153		
1000V	471	102	272	682	•	•		
2000V	•	391	•	102	•	•		



COG DIELECTRIC CHARACTERISTICS

OPERATING TEMPERATURE RANGE:	-55°C to 125°C
TEMPERATURE COEFFICIENT:	0 +/- 30 ppm/°C
DISSIPATION FACTOR:	.001 (0.1%) max @ 25°C
INSULATION RESISTANCE, 25°C	>100GΩ or >1000ΩF
125°C	>10GΩ or >100ΩF
DIELECTRIC WITHSTANDING VOLTAGE:	120% VDCW, or 750V*
*WHICHEVER IS GREATER	
AGING RATE:	0% per decade
TEST PARAMETERS:	1KHz, 1.0 +/- 0.2 VRMS, 25°C 1MHZ for Capacitance <100pF

X8R DIELECTRIC CHARACTERISTICS

OPERATING TEMPERATURE RANGE:	-55°C to 150°C
TEMPERATURE COEFFICIENT UP TO 150° C:	+/-15% ΔC Max
DISSIPATION FACTOR @ 25° C:	.025 (2.5%) max
INSULATION RESISTANCE AT 25°C	>100GΩ or >1000ΩF
AT 150°C	>10GΩ or >100ΩF
DIELECTRIC WITHSTANDING VOLTAGE:	< 200V, 250%
WHICHEVER IS GREATER	201-500V, 150% OR 500V > 500V, 120% or 750V*
AGING RATE:	< 2.0% per decade
TEST PARAMETERS:	1KHz, 1.0 +/- 0.2 VRMS, 25°C

X7R DIELECTRIC CHARACTERISTICS

OPERATING TEMPERATURE RANGE:	-55°C to 125°C
TEMPERATURE COEFFICIENT:	+/-15% ΔC Max
DISSIPATION FACTOR @ 25° C:	.025 (2.5%) max @ 25°C
INSULATION RESISTANCE, 25°C	>100GΩ or >1000ΩF
125°C	>10GΩ or >100ΩF
DIELECTRIC WITHSTANDING VOLTAGE:	120% VDCW, or 750V*
*WHICHEVER IS GREATER	
AGING RATE:	< 2.0% per decade
TEST PARAMETERS:	1KHz, 1.0 +/- 0.2 VRMS, 25°C

HOW TO ORDER

0805	B	123	K	501	LA	T	R
SIZE See Chart Above	DIELECTRIC N= COG B = X7R S = X8R	CAPACITANCE Value in Picofarads Two significant figures, followed by number of zeros: 123 = 12,000pF	TOLERANCE J = +/- 5 % K = +/- 10 % M = +/- 20 %	VOLTAGE-VDCW Two significant figures, followed by number of zeros: 501 = 500V	LEAD CONFIGURATIONS AVAILABLE LA = 0805 & 1206	PACKAGING A = Ammo Pack 5K/Pack T = Tape & Reel 7.5K/Reel No suffix = Bulk	RoHS R = RoHS Compliant