



RADIAL LEADED HV - HIGH RELIABILITY



NOVACAP High Voltage Leaded Capacitors with optimum design and special testing for long term reliability are available in COG and X7R characteristics. Conformal coating and lead mounting provide a rugged configuration for optimum performance. Units may be tested to MIL-PRF-49467 and/or MIL-PRF-39014. Applications include aerospace, airborne and military use for radar, power supplies and voltage multiplier circuits. Higher than cataloged voltage ratings are available. Commercial versions with higher capacitance efficiency per KV are offered, please refer to other NOVACAP literature, or consult the factory.

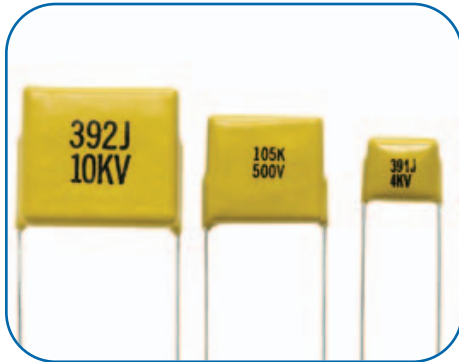
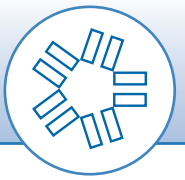
	102K 2000V	102K 2000V	103K 1000V	103K 5000V	102K 2000V	123M 7000V	274M 3000V
SIZE	1515	2520	3530	4540	5550	6560	7565
Min Cap(COG/X7R)	3R0/151	390/102	390/102	390/102	390/102	560/222	101/222
W MAX.	.250 (6.35)	.400 (10.2)	.500 (12.7)	.600 (15.2)	.700 (17.8)	.800 (20.3)	.900 (22.8)
H MAX.	.250 (6.35)	.350 (8.89)	.450 (11.4)	.550 (14.0)	.650 (16.5)	.750 (19.0)	.850 (21.6)
T MAX.	.200 (5.08)	.250 (6.35)	.350 (8.89)	.400 (10.2)	.400 (10.2)	.400 (10.2)	.400 (10.2)
S +/- .030	.170 (4.32)	.280 (7.10)	.380 (9.65)	.480 (12.2)	.580 (14.7)	.680 (17.3)	.780 (19.8)

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	COG		X7R		COG		X7R		COG		X7R		COG		X7R	
	COG	X7R	COG	X7R	COG	X7R	COG	X7R	COG	X7R	COG	X7R	COG	X7R	COG	X7R
500V	682	823	183	274	473	684	823	155	124	185	224	275	274	395		
600V	682	563	183	184	393	474	823	824	124	155	184	225	274	275		
800V	472	333	123	124	333	334	683	684	104	125	154	185	184	225		
1000V	392	183	123	683	273	184	563	474	823	684	124	105	184	125		
2000V	122	392	472	153	153	473	273	104	473	184	683	224	823	334		
3000V	561	152	222	562	682	223	183	473	273	683	393	104	473	154		
4000V	.	.	102	272	272	123	682	223	103	393	153	563	223	823		
5000V	.	.	561	182	182	822	472	153	682	273	103	393	123	473		
6000V	.	.	.	.	152	562	332	103	472	183	822	273	822	333		
7000V	.	.	.	.	821	392	182	682	272	123	392	183	472	273		
8000V	.	.	.	.	.	272	122	562	182	103	272	153	392	183		
9000V	.	.	.	.	.	.	821	392	122	682	222	123	272	153		
10000V	.	.	.	.	.	.	681	332	122	562	182	822	222	123		

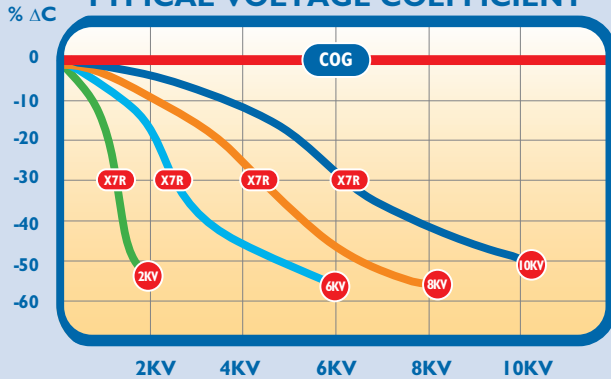
Dimensions in inches; bracketed dimensions in millimeters.



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

TYPICAL VOLTAGE COEFFICIENT



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 >1000 ΩF
125°C	>10GΩ or >100 ΩF
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

4540	B	103	K	302	LE	H	R
SIZE See Chart	DIELECTRIC N = COG B = X7R	CAPACITANCE Value in Picofarads Two significant figures, followed by number of zeros: 103 = 10,000pF	TOLERANCE J = +/- 5 % K = +/- 10 % M = +/- 20 %	VOLTAGE-VDCW Two significant figures, followed by number of zeros: 302 = 3000V	TERMINALS LE = Radial Lead with Conformal Coat on chip LO = Radial Lead without Conformal Coat on chip	HIGH RELIABILITY Specify Testing	RoHS R = RoHS Compliant

