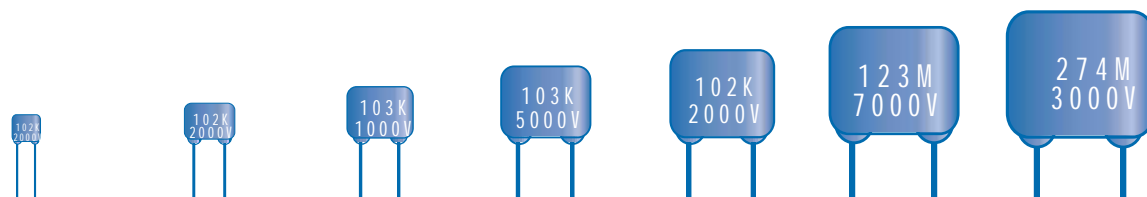


# RADIAL LEADED HV - HIGH RELIABILITY



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.



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)

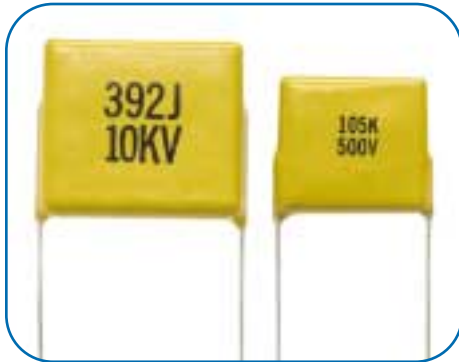
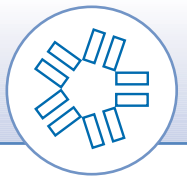
## CAPACITANCE & VOLTAGE

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

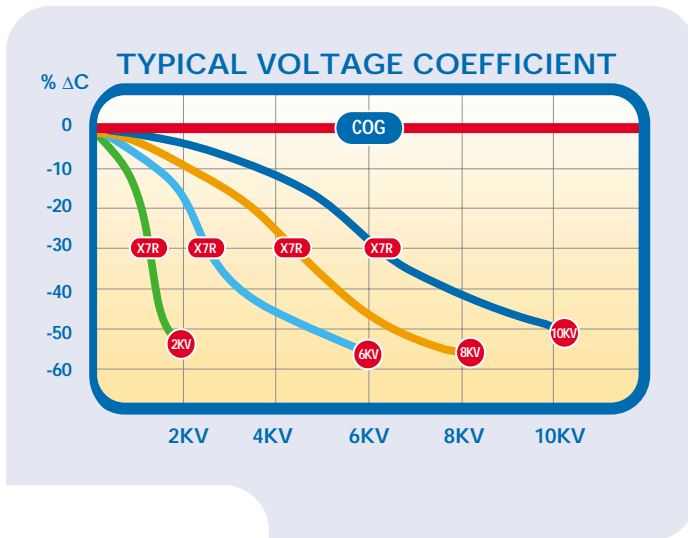
	COG	X7R	COG	X7R	COG	X7R	COG	X7R	COG	X7R	COG	X7R	COG	X7R
500V	682	823	183	274	473	684	823	155	124	185	224	275	274	395
600V	682	563	183	184	393	474	823	824	124	155	184	225	274	275
800V	472	333	123	124	333	334	683	684	104	125	154	185	184	225
1000V	392	183	123	683	273	184	563	474	823	684	124	105	184	125
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 125°C	>100GΩ or >1000Ω F >10GΩ or >100Ω F
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



## 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 125°C	>100GΩ or >1000 ΩF >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
<b>SIZE</b> See Chart	<b>DIELECTRIC</b> N = COG B = X7R	<b>CAPACITANCE</b> Value in Picofarads Two significant figures, followed by number of zeros: 103 = 10,000pF	<b>TOLERANCE</b> J = +/- 5 % K = +/- 10 % M = +/- 20 %	<b>VOLTAGE-VDCW</b> Two significant figures, followed by number of zeros: 302 = 3000V	<b>TERMINALS</b> LE = Radial Lead with Conformal Coat on chip LO = Radial Lead without Conformal Coat on chip	<b>HIGH RELIABILITY</b> Specify Testing	<b>RoHS</b> R = RoHS Compliant

