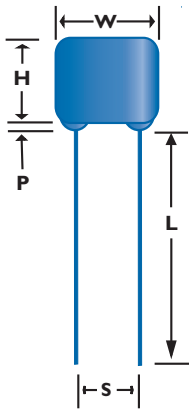


RADIAL LEADED - COMMERCIAL



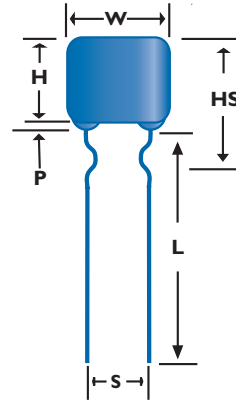
NOVACAP RoHS compliant small case Radial Leaded Capacitors are available in COG, X7R and X8R characteristics. Conformal coating and lead mounting provide a rugged configuration for optimum performance, with high capacitance efficiency per KV rating. Units are designed for commercial/industrial use to 5 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.

LEAD CONFIGURATION AND SIZE OPTIONS



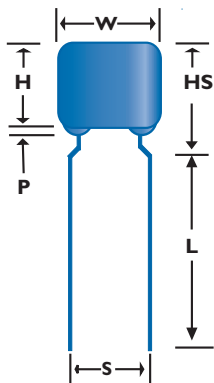
**LEAD STYLE
LE**

**AVAILABLE
IN SIZES
0805
1812**



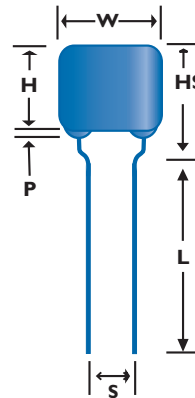
**LEAD STYLE
LB**

**AVAILABLE
IN SIZE
2225**



**LEAD STYLE
LD & LQ**

**LD AVAILABLE
IN SIZES
0805
1206
1210
LQ -1206 only**



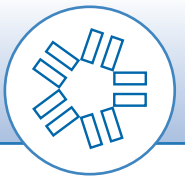
**LEAD STYLE
LR**

**AVAILABLE
IN SIZE
1206**

LEAD STYLE	LE	LD	LR	LD	LQ	LD	LE	LB
SIZE	0805	0805	1206	1206	1206	1210	1812	2225
W MAX.	.150 (3.81)	.150 (3.81)	.200 (5.08)	.200 (5.08)	.200 (5.08)	.200 (5.08)	.300 (7.62)	.350 (8.89)
H MAX.	.150 (3.81)	.150 (3.81)	.150 (3.81)	.150 (3.81)	.150 (3.81)	.200 (5.08)	.250 (6.35)	.350 (8.89)
T MAX.	.100 (2.54)	.100 (2.54)	.125 (3.18)	.125 (3.18)	.125 (3.18)	.175 (4.45)	.200 (5.08)	.200 (5.08)
HS MAX.	.200 (5.08)	.250 (6.35)	.250 (6.35)	.250 (6.35)	.250 (6.35)	.300 (7.62)	.350 (8.89)	.500 (12.70)
S +/- .020	.100 (2.54)	.200 (5.08)	.100 (2.54)	.200 (5.08)	.250 (6.35)	.200 (5.08)	.200 (5.08)	.200 (5.08)
WD +/- .002	.020 (0.51)	.020 (0.51)	.020 (0.51)	.020 (0.51)	.020 (0.51)	.020 (0.51)	.025 (0.635)	.025 (0.635)
L MIN.	1.00 (25.4)	1.00 (25.4)	1.00 (25.4)	1.00 (25.4)	1.00 (25.4)	1.00 (25.4)	1.00 (25.4)	1.00 (25.4)
P MAX.	.060 (1.50)	.060 (1.50)	.060 (1.50)	.060 (1.50)	.060 (1.50)	.060 (1.50)	.060 (1.50)	.060 (1.50)

Dimensions in inches; bracketed dimensions in millimeters.

RADIAL LEADED - COMMERCIAL



NOVACAP RoHS compliant Conformal Coated Radial Leaded parts in small case sizes 0805, 1206, 1210, 1812 and 2225 are offered with bulk pack or Taped form Ref EIA-RS468 suitable for automatic insertion. For further explanation of the COG and X7R Dielectric Characteristics please refer to page 8-9 of the catalog. X8R Dielectric characteristics can be found on page 31. Additional commercial and high reliability versions in larger case sizes are also available, please refer to pages 46-50 or consult the factory.

CAPACITANCE & VOLTAGE SELECTION

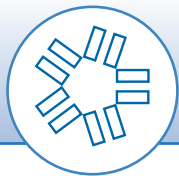
3 digit code: two significant digits, followed by number of zeros eg: 183 = 18,000 pF. R denotes decimal, eg. 2R7 = 2.7 pF

SIZE	0805			1206			1210			1812			2225		
	Min Cap	100	121	121	100	121	221	100	121	331	101	151	221	101	471	102
	COG	X7R	X8R	COG	X7R	X8R	COG	X7R	X8R	COG	X7R	X8R	COG	X7R	X8R
50V	.	.	473	.	.	154	.	.	274	.	.	564	.	.	125
100V	.	.	333	.	.	104	.	.	184	.	.	394	.	.	105
250V	152	273	183	392	683	333	822	124	823	223	394	154	473	824	564
500V	821	123	562	182	223	153	472	563	393	123	154	563	273	334	154
1000V	471	272	.	102	682	.	222	153	.	822	473	.	153	104	.
2000V	.	.	.	391	102	.	821	222	.	272	682	.	392	153	.
3000V	.	.	.	.	.	.	.	.	.	122	272	.	182	562	.
4000V	.	.	.	.	.	.	.	.	.	821	122	.	102	152	.
5000V	.	.	.	.	.	.	.	.	.	.	.	.	561	102	.

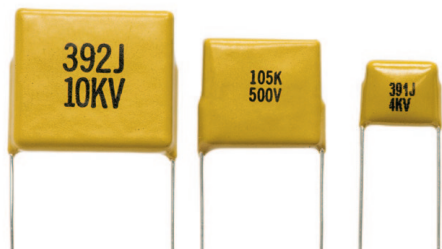
MAX CAP @ VOLTAGE

HOW TO ORDER

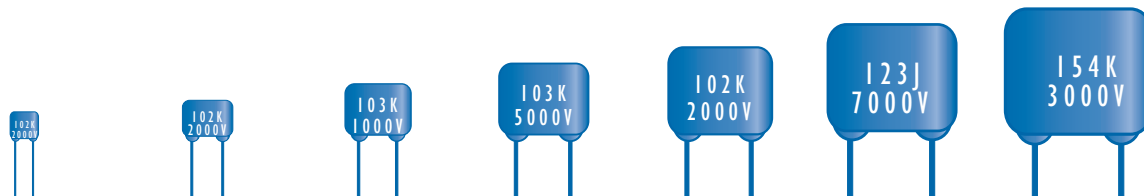
0805	B	123	K	501	LD	T	R
SIZE See Chart Above	DIELECTRIC N = COG B = X7R S = X8R	CAPACITANCE Value in Picofarads Two significant figures, followed by number of zeros: 123 = 12,000pF	TOLERANCE J = +/- 5 % K = +/- 10 % M = +/- 20 %	VOLTAGE-VDCW Two significant figures, followed by number of zeros: 501 = 500V	LEAD CONFIGURATIONS AVAILABLE (See Page 46) LE = 0805 & 1812 LB = 2225 only LD = 0805, 1206, 1210 LR = 1206 only LQ = 1206 only	PACKAGING T = Tape & Reel A = Ammo Pack No suffix = Bulk	RoHS R = RoHS Compliant



RADIAL LEADED HV - COMMERCIAL



NOVACAP High Voltage Leaded Capacitors are available in COG and X7R 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 10 KV, with application in power supply and voltage multiplier circuits. Minimum voltage is 500 Vdc. Higher voltage ratings are available, as well as high reliability versions, with restricted capacitance ranges. Please refer to other NOVACAP literature, or consult the factory.



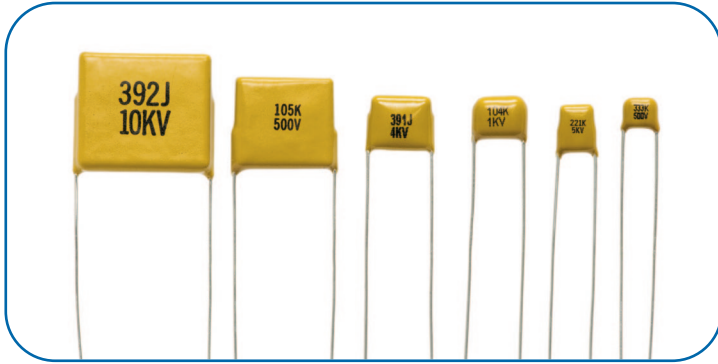
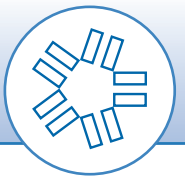
SIZE	1515	2520	3530	4540	5550	6560	7565
Min Cap(CoG/X7R)	3R0/151	390/102	390/102	390/102	390/102	560/222	101/222
W MAX.	.250 (6.35)	.400 (10.2)	.500 (12.7)	.600 (15.2)	.700 (17.8)	.800 (20.3)	.900 (22.8)
H MAX.	.250 (6.35)	.350 (8.89)	.450 (11.4)	.550 (11.4)	.650 (16.5)	.750 (19.0)	.850 (21.6)
T MAX.	.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

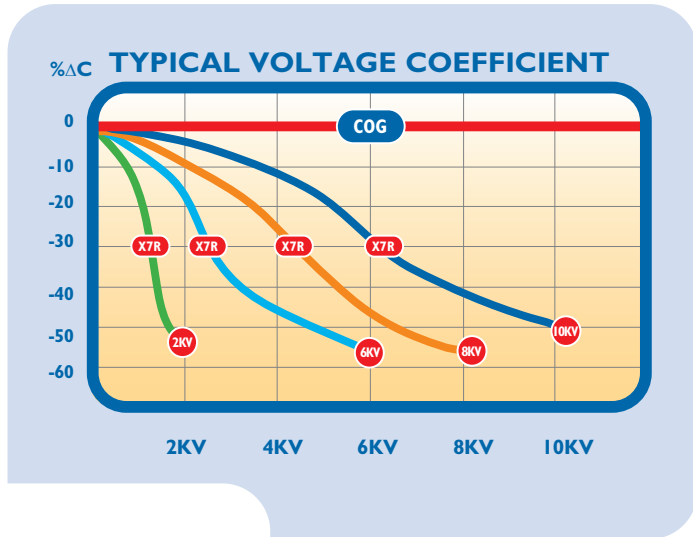
	COG		X7R		COG		X7R		COG		X7R		COG		X7R	
	COG	X7R	COG	X7R	COG	X7R	COG	X7R	COG	X7R	COG	X7R	COG	X7R	COG	X7R
500V	822	154	393	684	683	105	124	185	184	225	274	335	334	475		
600V	682	124	223	394	393	684	823	155	154	225	224	275	274	395		
800V	682	823	183	274	333	394	683	824	124	155	184	225	224	275		
1000V	562	563	123	184	273	334	563	684	104	105	154	155	184	225		
2000V	272	822	562	273	153	683	333	184	473	274	683	394	104	474		
3000V	122	332	272	123	103	273	223	683	333	124	473	184	563	224		
4000V	681	122	152	472	562	153	123	333	183	473	273	823	393	104		
5000V	.	.	102	272	332	103	822	183	123	333	183	473	223	563		
6000V	.	.	.	.	182	562	392	123	562	223	103	333	123	393		
7000V	.	.	.	.	122	472	272	822	472	153	682	223	822	273		
8000V	.	.	.	.	102	332	222	682	332	123	562	153	682	223		
9000V	.	.	.	.	.	272	182	472	272	103	392	123	472	183		
10000	.	.	.	.	.	182	152	392	222	682	332	103	392	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 >100 ΩF
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% °C 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	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	ROHS R = RoHS Compliant

