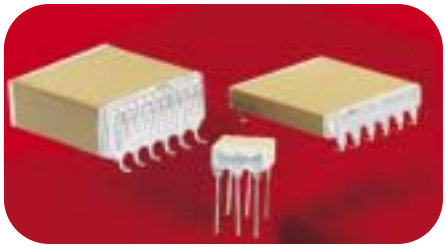
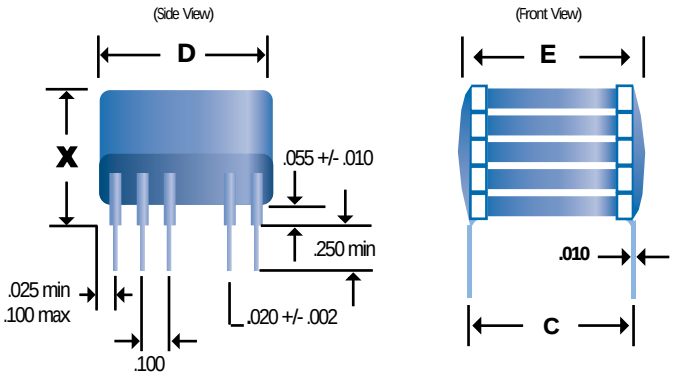


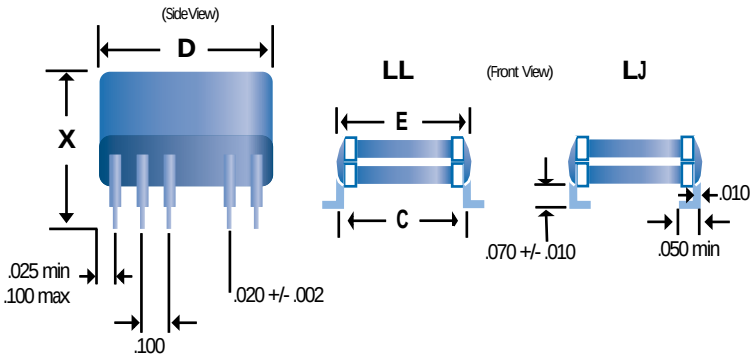
NOVACAP capacitor assemblies with low equivalent series resistance (ESR) and low equivalent series inductance (ESL) are available in dielectric characteristics COG and X7R available for use in high power or high frequency applications, as replacement for tantalums and aluminum electrolytics. The leaded configurations safeguard the device against thermal and mechanical stresses, and include thru-hole and surface mount J and L style leads, bonded with high temperature solder. Applications include input and output filters in switch mode power supplies, high capacitance discharge circuits, and high temperature filtering/decoupling. Other sizes and voltage ratings than indicated in the tables are available, consult NOVACAP.

LEAD CONFIGURATION AND ASSEMBLY OPTIONS

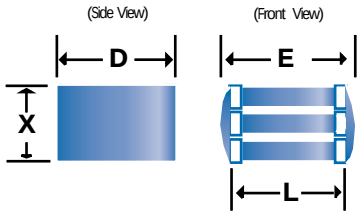
LN (straight wire leads)



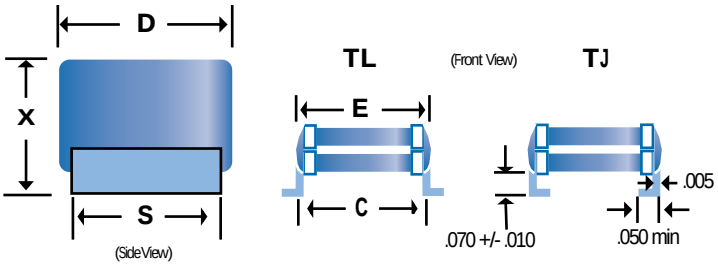
LJ & LL (bent wire leads)



NN or NP (no leads)



TJ & TL (tab leads)



DIMENSIONS

SIZE	1812	1825	2225	3640	4540	5550	7565
C +/- .025	.210 (5.33)	.210 (5.33)	.250 (6.35)	.400 (10.2)	.480 (12.2)	.580 (14.7)	.780 (19.8)
D +/- .025	.125 (3.18)	.250 (6.35)	.250 (6.35)	.400 (10.2)	.400 (10.2)	.500 (12.7)	.650* (3.18)
E (MAXIMUM)	.260 (6.60)	.260 (6.60)	.300 (7.62)	.430 (10.9)	.530 (13.5)	.630 (16.0)	.830 (21.1)
X (MAXIMUM)	.600 (15.2)	.600 (15.2)	.715 (18.2)	.715 (18.2)	.715 (18.2)	.715 (18.2)	.715 (18.2)
L (NOMINAL)	.180 (4.57)	.180 (4.57)	.220 (5.59)	.360 (9.14)	.450 (11.4)	.550 (14.0)	.750 (19.1)
LEADS/SIDE	N/A	3	3	4	4	5	6

Dimensions in inches; bracketed dimensions in millimeters
* +/- .035"

The ST series provide the highest capacitance available, based on chip designs for general purpose use. The assemblies are 100% tested for Dielectric Withstanding Voltage, Insulation Resistance, Capacitance, and Dissipation Factor.

The SM series are designed and tested for high reliability military and industrial applications. The parts are tested per Group A of MIL-PRF-49470 (DSCC 87106). NOVACAP has a complete testing facility. Please contact the factory for any additional military testing requirements.

"ST" SERIES (GENERAL PURPOSE)

MAXIMUM CAPACITANCE (FULL STACK OF 6 CHIPS) & VOLTAGE SELECTION

3 digit code: two significant digits, followed by number of zeros eg: 273 = 27,000 pF

SIZE	1812		1825		2225		3640		4540		5550		7565	
	COG	X7R	COG	X7R	COG	X7R	COG	X7R	COG	X7R	COG	X7R	COG	X7R
50V	154	395	334	685	394	825	824	226	105	276	155	396	335	686
100V	124	335	274	565	334	685	684	126	824	156	125	226	225	396
200V	683	225	224	335	274	475	474	825	564	106	824	156	155	276
500V	273	474	683	824	823	125	184	225	224	275	334	335	474	685

"SM" SERIES (HIGH RELIABILITY)

MAXIMUM CAPACITANCE (FULL STACK OF 6 CHIPS) & VOLTAGE SELECTION

3 digit code: two significant digits, followed by number of zeros eg: 273 = 27,000 pF

SIZE	1812		1825		2225		3640		4540		5550		7565	
	COG	X7R	COG	X7R	COG	X7R	COG	X7R	COG	X7R	COG	X7R	COG	X7R
50V	104	335	334	565	394	685	684	186	824	226	125	276	275	476
100V	104	275	224	475	274	565	564	825	684	126	105	156	185	336
200V	563	155	184	275	224	395	394	625	474	825	684	126	125	226
500V	223	224	563	334	683	684	154	155	184	225	274	275	334	475

HOW TO ORDER

ST	3640	B	825	K	101	L J	X	W	-6
STYLE ST = General Purpose SM = High Reliability	**SIZE** See Chart	**DIELECTRIC** N = COG B = X7R	**CAPACITANCE** Value in Picofarads Two significant figures, followed by number of zeros: 825 = 8,200,000 pF (8.2mF)	**TOLERANCE** COG: B = 0.10 pF C = 0.25 pF D = 0.50 pF F = +/- 1.0 % G = +/- 2.0 % H = +/- 3.0 % X7R: J = +/- 5.0 % K = +/- 10 % M = +/- 20 % Z = +80% -20% P = +100% -0%	**VOLTAGE-VDCW** Two significant figures, followed by number of zeros: 101 = 100V	**LEAD STYLE** LN = Straight LL = L Lead LJ = J Lead TL = L Tab TJ = J Tab NN = Nickel NP = Pd/Ag	**THICKNESS OPTION** Specify Standoff dimension (X) if less than max.	**PACKING OPTION** W=Waffle T=Reeled	**NUMBER OF CHIPS**