



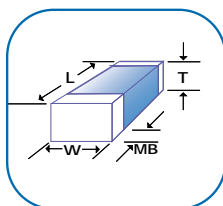
Y3 - CERTIFIED SAFETY CAPACITORS




NOVACAP offers a line of MLC chip capacitors, sizes LS 1808, LS 1812, X², Y³ Class Compliant* specifically designed for use in modem, facsimile, telephone and other electronic equipment where lightning or overvoltage surges can occur. These parts are rated at 3,000 Vdc (Y³) and 250 Vac safety approved and certified to EN 60950. The product is compliant to Standards EN 132400: 1994/A2: 1998/IEC60384-14, Second Edition: 1993/A1:1995, and meet the requirements of EN61000-4-5, IEC1000-4-5, and IEC801-4-5. Capacitors are available in COG (NP0) and X7R dielectrics.


	LS 1808 (Y ³)	LS 1812 (Y ³)
SIZE		
LENGTH L	.180 (4.57)	.180 (4.57)
WIDTH W	.080 (2.03)	.125 (3.18)
T MAX	See Chart	See Chart
MB	.024 (.609) Typical	.024 (.609) Typical
CREEPAGE	.102 (2.60) Min	.102 (2.60) Min


Dimensions are in inches, bracketed dimensions in millimeters.
Tolerances for length and width are .015" (0.38 mm).



TUV	(LS 1808N) R9972698.01,.02,.03 (LS1808B) R2272835.01,.02 (LS1812N) R9972698.05
STANDARDS	EN 132400, EN 60950, IEC 60384-14 Second Edition, Class X ² Y ³ .
UL	NWGO2.E208336 and NWGO8.E208336

 Maximum Thickness of .065".
No "X065" required in the part number. ie: LS1808N151K302NT

 Maximum Thickness of .080".
"X080" required in the part number. ie: LS1808N102K302NX080T

 Maximum Thickness of .100".
"X100" required in the part number. ie: LS1812N202K302NX100T

Cap (EIA)	LS 1808 COG/NPO	LS 1808 X7R	LS 1812 COG/NPO
5R0			
6R8			
8R2			
100			
120			
150			
180			
220			
270			
330			
390			
470			
560			
680			
820			
101			
121			
151			
181			
221			
271			
331			
391			
471			
561			
681			
821			
102			
122			
152			
182			
222			

HOW TO ORDER

LS1808	N	102	K	302	N	X080	T	M
SIZE LS 1808 LS 1812	DIELECTRIC N = COG B = X7R	CAPACITANCE Value in Picofarads Two significant figures, followed by number of zeros: 102 = 1000 pF	TOLERANCE J = +/- 5 % K = +/- 10 % M = +/- 20 %	VOLTAGE-VDCW Two significant figures, followed by number of zeros: 302 = 3000 VDC	TERMINATION N = Nickel Barrier (100% Tin)	THICKNESS OPTION Not required for .065" Max Thickness, X080 or X100 required for thickness >.065" See Chart	PACKING OPTION T = Reeled	MARKING OPTION M = Marked (See Marking Specification)

*Compliant with Robustness of Termination (cl 4.3) test according to IEC 60384-1 amendment 3 cl 4.34 and 4.35 Resistance to Soldering Heat (cl 4.4) tested according to IEC 60384-1 amendment 3 cl 4.14.2, Impulse Test made with 2.5 KV or 5.0KV as required according to 6.4.2.1 in EN 60950. The creepage distance between live parts of different polarity meets the requirements of IEC 60950.