



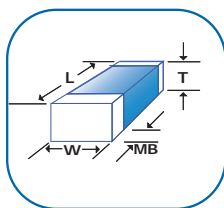
Y3 - CERTIFIED SAFETY CAPACITORS






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 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 | LS 1812 |
|-----------------|---------------------|---------------------|
| SIZE | (Y ³) | (Y ³) |
| 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 | NWVGQ2.E208336 and NWVGQ8.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 | DIELECTRIC | CAPACITANCE | TOLERANCE | VOLTAGE-SURGE | TERMINATION | THICKNESS OPTION | PACKING OPTION | MARKING |
| LS 1808 | N = COG | Value in Picofarads | J = +/- 5 % | Two significant figures, followed by number of zeros: | N = Nickel Barrier (100% Tin) | Not required for .065" Max Thickness, X080 or X100 required for thickness >.065" See Chart | T = Reeled | Parts Marked 'NLS' |
| LS 1812 | B = X7R | Two significant figures, followed by number of zeros: 102 = 1000 pF | K = +/- 10 % M = +/- 20 % | 302 = 3000 VDC | | | | |

*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.