



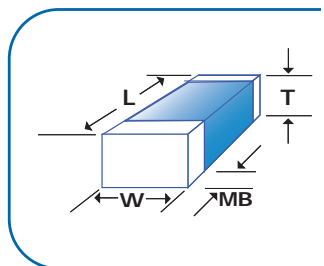
TIP & RING CAPACITORS



NOVACAP offers a line of low ESR surface mount capacitors ideally suited for “Tip & Ring” applications. These units are designed with 250 VDC rating to withstand the 52 VDC bias and 150 VRMS signal during ring cadence. Chips are offered in X7R dielectric from 0.39 μ F to 1.5 μ F in sizes 1812, 1825 and 2225. Product is also available in Z5U and Y5V dielectric from 0.47 μ F to 1.5 μ F for other ring detection circuits.

MAX CAPACITANCE @ 250 VDC

3 digit code: two significant digits, followed by number of zeros
eg: 394 = 390,000 pF (0.39 μ F)



| SIZE | 1812 | 1825 | 2225 |
|----------|-------------|-------------|-------------|
| LENGTH L | .180 (4.57) | .180 (4.57) | .220 (5.59) |
| WIDTH W | .125 (3.18) | .250 (6.35) | .250 (6.35) |
| T MAX | .095 (2.41) | .095 (2.41) | .095 (2.41) |
| MB | .024 (.610) | .024 (.610) | .030 (.760) |

| X7R DIELECTRIC | | | |
|----------------|-----|-----|-----|
| MAX CAP @ 250V | 474 | 824 | 105 |

| Y5V/Z5U DIELECTRIC | | | |
|--------------------|-----|-----|-----|
| MAX CAP @ 250V | 564 | 125 | 155 |

HOW TO ORDER

| RD1812 | Y | 474 | M | 251 | N | X | T | M |
|---|--|--|--|--|--|---|-------------------------------------|--|
| SIZE RD1812 RD1825 RD2225 | DIELECTRIC B = X7R Y = Y5V Z = Z5U | CAPACITANCE Value in Picofarads Two significant figures, followed by number of zeros: 474=470,000 pF | TOLERANCE J = +/- 5 % X7R ONLY K = +/- 10 % M = +/- 20 % Z = +80% -20% P = +100% -0% | VOLTAGE-VDCW Two significant figures, followed by number of zeros: 251 = 250V | TERMINATION N = Nickel Barrier (100% Tin) Y = Nickel Barrier (90 Tin/10 Lead) | THICKNESS OPTION X = Non-standard thickness. Specify in Mils if non-standard is required. Standard items are any thickness to maximum shown | PACKING OPTION T = Reeled | MARKING OPTION M = Marked (See Marking Instructions) |