



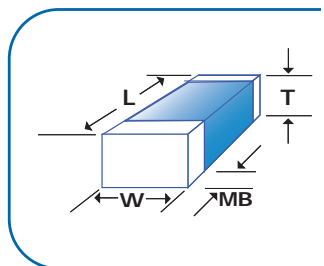
# TIP & RING CAPACITORS



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 $\mu$ F to 1.5 $\mu$ F in sizes 1812, 1825 and 2225. Product is also available in Z5U and Y5V dielectric from 0.47 $\mu$ F to 1.5 $\mu$ 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 $\mu$ 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
<b>SIZE</b> RD1812 RD1825 RD2225	<b>DIELECTRIC</b> B = X7R Y = Y5V Z = Z5U	<b>CAPACITANCE</b> Value in Picofarads Two significant figures, followed by number of zeros: 474=470,000 pF	<b>TOLERANCE</b> J = +/- 5 % <b>X7R ONLY</b> K = +/- 10 % M = +/- 20 % Z = +80% -20% P = +100% -0%	<b>VOLTAGE-VDCW</b> Two significant figures, followed by number of zeros: 251 = 250V	<b>TERMINATION</b> N = Nickel Barrier (100% Tin) Y = Nickel Barrier (90 Tin/10 Lead)	<b>THICKNESS OPTION</b> X = Non-standard thickness. Specify in Mils if non-standard is required. Standard items are any thickness to maximum shown	<b>PACKING OPTION</b> T = Reeled	<b>MARKING OPTION</b> M = Marked (See Marking Instructions)

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Novacap:](#)

[RD2225B105K251NXT](#) [RD1812B474K251NXT](#) [RD1812Z334M251NXT](#) [RD1812Z474M251NXT](#)