



# RING DETECT CAPACITORS

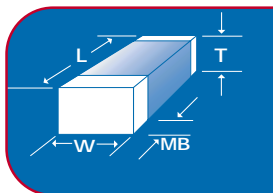


**NOVACAP** offers a line of low ESR surface mount capacitors ideally suited for Tip & Ring applications. These units are designed with 250VDC rating to withstand the 52VDC bias and 150 VRMS signal during ring cadence. Chips are offered in X7R dielectric from 0.39 F to 1.00 F in sizes 1812, 1825 and 2225. Product is also available in Z5U and Y5V dielectric from 0.47 F to 1.30 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 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)
<b>X7R DIELECTRIC</b>			
MAX CAP @ 250V	474	824	105
<b>Z5U / Y5V DIELECTRIC</b>			
MAX CAP @ 250V	564	105	135
<b>DIMENSIONAL TOLERANCES +/- INCHES (MM)</b>			
LENGTH L	.012 (.305)	.012 (.305)	.015 (.380)
WIDTH W	.008 (.203)	.016 (.406)	.015 (.380)
MB	.014 (.355)	.014 (.355)	.015 (.380)



## HOW TO ORDER

RD1812	Y	474	M	251	N	X	T	M
<b>SIZE</b> See Chart	<b>DIELECTRIC</b> B = X7R Z = Z5U Y = Y5V	<b>CAPACITANCE</b> Value in Picofarads Two significant figures, followed by number of zeros: 474 = 470,000pF	<b>TOLERANCE</b> J = +/- 5% X7R Only K = +/- 10% M = +/- 20% Z = +80%-20% P = +100%-0%	<b>VOLTAGE-VDCW</b> 251 = 250VDC	<b>TERMINATION</b> N = Nickel Barrier 90/10 Sn/Pb	<b>THICKNESS OPTION</b> X = Non standard thickness. Specify in Mils if Non EIA thickness is required.	<b>PACKING OPTION</b> T = Reeled	<b>MARKING OPTION</b> M = Marked (See Marking Specifications)