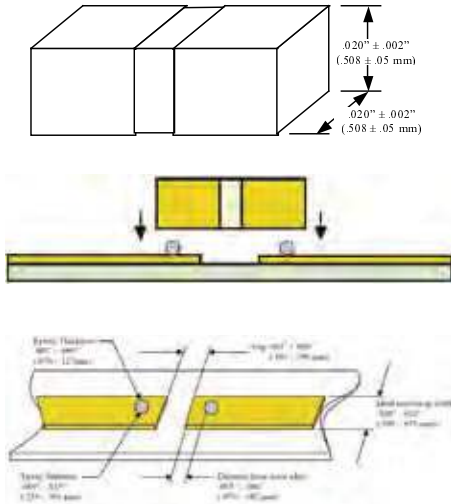


# Broadband Blocks - Milli-Cap® SMD Millimeter Wave Capacitor

## Description

- 0402, 0502 & 0602 Footprints
- Low Loss High Q part
- Very Low Series Inductance
- Ultra High Series Resonance
- Matches typical 50Ω Line Widths
- Preserves Board Space
- Behaves Like An Ideal Capacitor
- More Usable Bandwidth



## Functional Applications

- Ideal for Test Equipment, Photonics, SONET, Digital radios, and Matching Filter applications

## Mechanical Specification

- Terminations: Gold
- Assembly temperatures not to exceed 260°C.

## Electrical Characteristics

Part Number	Cap.	Voltage Rating	Temperature Coefficient -55°C to 125°C	Maximum Dissipation Factor @ 25°C	Insulation Resistance (MΩ Minimum)	Aging Rate	Frequency Range
P_2BN820Z5ST	82 pF	50 Vdc	± 10%	3.0% @1MHz	10 <sup>5</sup> MΩ @ 25°C at rated voltage	<=1.5%/decade hrs	20MHz– 40GHz
P_2NR3R0K5ST	3.0 pF		N1500 ±500PPM / °C	0.25% @1MHz	10 <sup>6</sup> MΩ @ 25°C at rated voltage		4–20GHz
P_2CG1R5C5ST	1.5 pF		0 ± 30PPM	0.7% @1KHz			8–32GHz
P_2CG1R0C5ST	1.0 pF		N20 ±15PPM / °C	0.15% @1MHz			18–40GHz
P_2CD0R7B5ST	0.7 pF		0 ±15PPM / °C	0.6% @1KHz			20–46GHz
P_2CF0R5B5ST	0.5 pF						28–40GHz
P_2CF0R3B5ST	0.3 pF				35–50GHz		

Dimensions Key: P42 = 0402; P02 = 0502; P62 = 0602

## Electrical Performance

The information below represents typical device performance.

