

Milli-Cap® SMD Millimeter Wave Capacitor

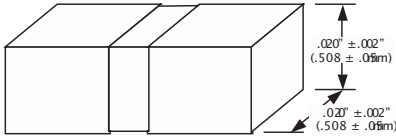
Functional Applications

0402, 0502 and 0602 Footprints, Very Low Series Inductance, Ultra High Series Resonance, Low Loss High Q part.

Benefits

Matches typical 50Ω Line Widths, Preserves Board Space, Behaves Like An Ideal Capacitor, More Usable Bandwidth

Mechanical Specification



- Terminations: Gold
- Assembly temperatures not to exceed 260°C.
- Ideal for Test Equipment, Photonics, SONENT, Digital radios, and Matching Filter applications

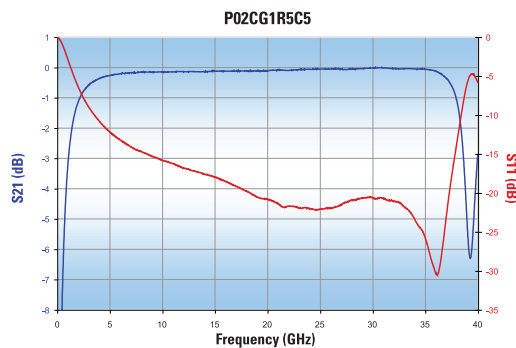
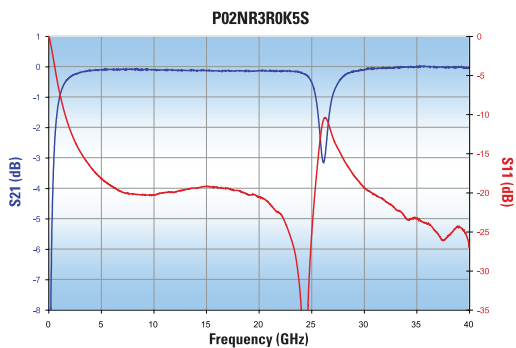
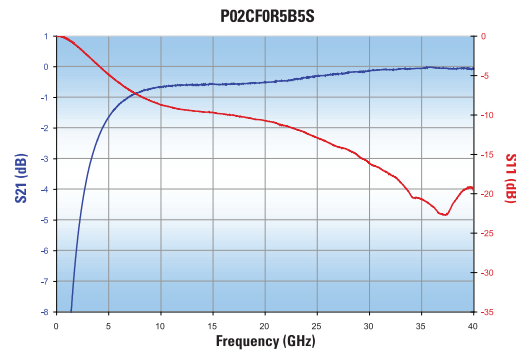
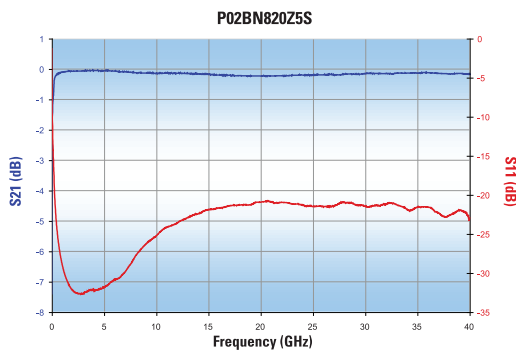


Part Characteristics

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

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

Electrical Performance



The information above represents typical device performance.