

Ideal SMT Capacitor

Milli-Cap®



Functional Applications:

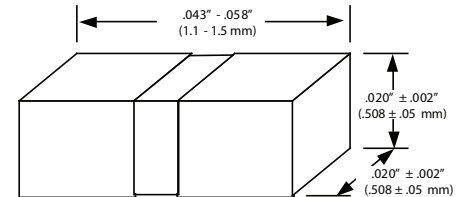
0402, 0502 and 0602 Footprints, Very Low Series Inductance, Ultra High Series Resonance, Low Loss High Q part.

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, SONET, Digital radios, and Matching Filter applications
- < .25db loss over the full spectrum



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% 1MHz, 25°C	3.0% at rated voltage	10 ⁵ MΩ @ 25°C Decade Hours	<=1.5%/ 20MHz- 40GHz	20MHz-40GHz
P_2NR3R0K5ST	3.0 pF	50 Vdc	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	50 Vdc	0 ± 30PPM	0.7% 1KHz, 25°C	10 ⁶ MΩ @ 25°C at rated voltage	N / A*	4-20GHz
P_2CG1R0C5ST	1.0 pF	50 Vdc	0 ± 30PPM	0.15% 1KHz, 25°C	10 ⁶ MΩ @ 25°C at rated voltage	N / A*	18-40GHz
P_2CD0R7B5ST	0.7 pF	50 Vdc	N20 ±15PPM / °C	0.15% 1KHz, 25°C	10 ⁶ MΩ @ 25°C at rated voltage	N / A*	20-46GHz
P_2CF0R5B5ST	0.5 pF	50 Vdc	0 ±15PPM / °C	0.6% 1KHz, 25°C	10 ⁶ MΩ @ 25°C at rated voltage	N / A*	28-40GHz
P_2CF0R3B5ST	0.3 pF	50 Vdc	0 ±15PPM / °C	0.6% 1KHz, 25°C	10 ⁶ MΩ @ 25°C at rated voltage	N / A*	35-50GHz

Dimensions Key: P21 = 0201; P42 = 0402; P02 = 0502; P62 = 0602

Electrical Performance

