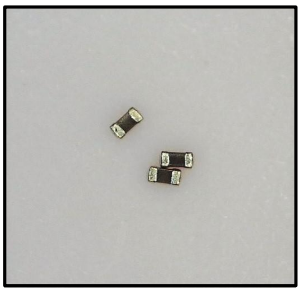
Broadband Multi-Layer Capacitors

01005BB103MW100 (0.010” x 0.005”)



PPI Broadband Capacitors are subjected to standard measurements (Capacitance, TCC, DWV), and extensive RF Characteristics testing. This guarantees every lot will meet or exceed expectations.

Product Features

• Typical Operating Frequency Range	160 kHz (-3dB point) to > 40 GHz
• Insertion Loss	< 1.2dB, typical
• Tape & Reel	40K pcs/reel; Lower quantities available in cut tape
• Capacitance	10nF, nom.
• Operating Temperature Range	-55°C to +125°C
• Temperature Coefficient of Capacitance (TCC)	(±15%, -55°C to +125°C)
• Rated Voltage	10 WVDC
• Dielectric Withstanding Voltage (DWV)	250% of rated WVDC for 5 seconds

Part Numbering

01005 BB 103 M W 100

- 01005 — Case Size (0.010” x .0.005”)
- BB — BB: Broadband
- 103 — Cap Value 100=10x10⁰=10pF, 104 = 10x10⁴
- M — Tolerance M = ±20%
- W — Termination: *Tin Plated over Nickel Barrier*
- 100 — Voltage 100 = 10V

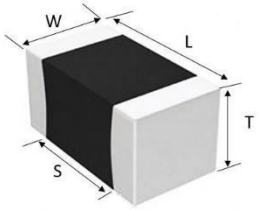
Code	Termination
W	Tin Plated Over Nickel Barrier (RoHS Compliant)
G	Gold Epoxy Mount Only

RoHS

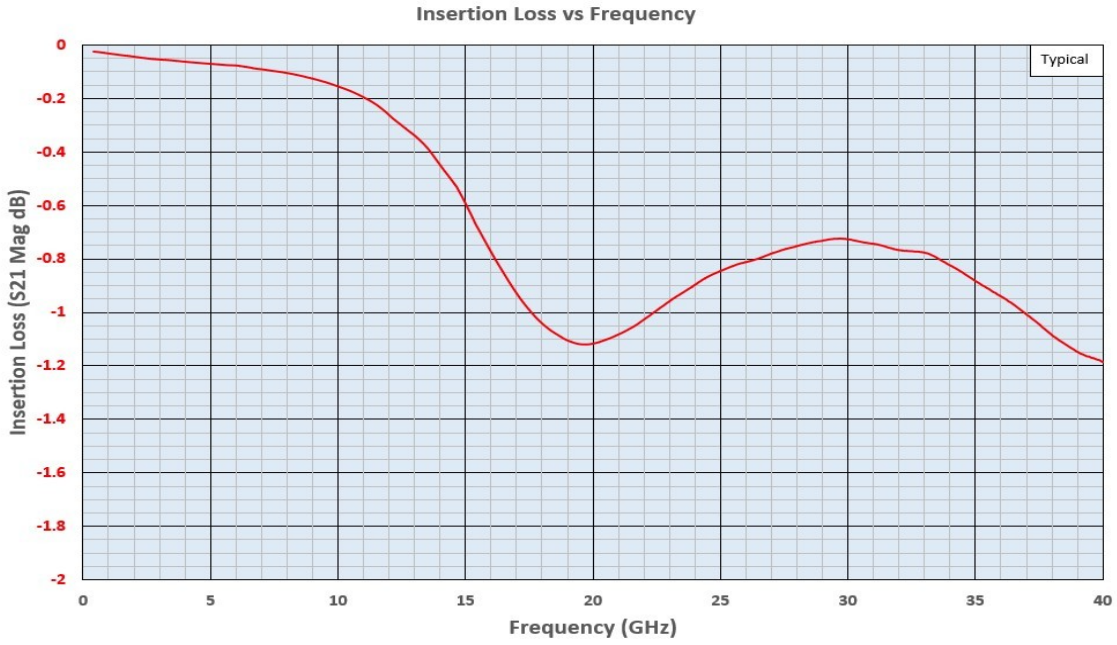
* Gold terminated parts are only available in waffle packs.

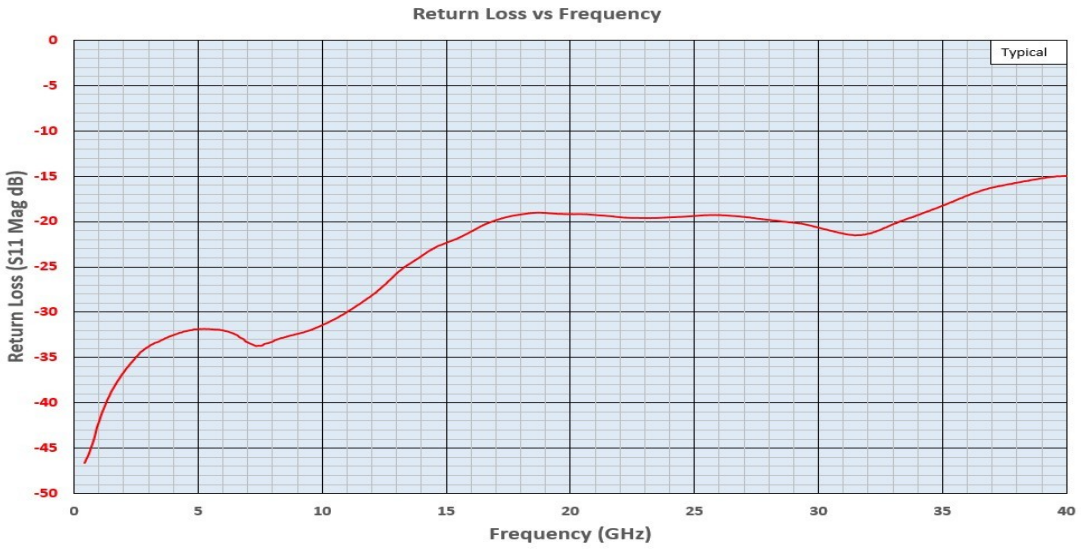
Capacitor Dimensions

Length	Width	Thickness	Gap
L	W	T	S
0.016 in ± 0.001 (0.40mm ± 0.02mm)	0.008 in ± 0.001 (0.20mm ±0.02mm)	0.008 in ± 0.001 (0.20mm ±0.02mm)	0.005 in min (0.13mm min)



Performance Curves





Test Conditions

Typical responses for sample placed across a 5.0 mil (0.127 mm) gap between 11.4 mil (0.290 mm) wide, 8.5 mil (0.216 mm) long mounting pads on 4-mil Rogers RO4350B.

Measured data was de-embedded to the mounting pad edges using TRL calibration procedures.

**Please note that the contents of this document are subject to change at any time at PPI's sole discretion. The most up-to-date version of this document is available at www.passiveplus.com.