

0402BB (.040" x .020") 0402BB103KW500

0402 (.040" x .020")



♦ Product Features

- Typical operating frequency range: 160 kHz (-3 dB point) to 40 GHz;
- Insertion Loss: < 1 dB, typical; 50 WVDC
- Available in Tin, and Tin/Lead (90% Sn/10% Pb) Terminations
- Available in 10K pcs/reel; Lower quantities available in cut-tape.

◆ Performance Curves – Insertion and Return Loss Charts

♦ Electrical Specifications

- Capacitance: 10 nF
- Operating Temperature Range: -55 ℃ to +125 ℃
- Temperature Coefficient of Capacitance (TCC): $\pm 15\%$ (-55 °C to +125 °C)
- ± 15% (-55 € to +125)
 Rated Voltage: 50 WVDC
- Dielectric Withstanding Voltage (DWV):
 250% of rated WVDC for 5 secs.
- Insulation Resistance:

 $10^{11}\Omega$ min. @ $+25^{\circ}$ C @ rated WVDC



20 Frequency (GHz)

Mechanical Dimensions

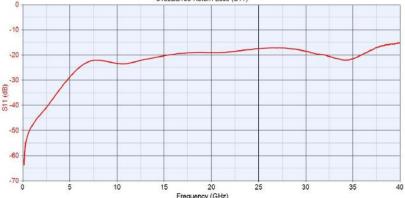
 $L = 0.040 \text{ in.} \pm 0.004 \text{ in.} (1.016 \text{mm} \pm 0.102 \text{mm})$

W = 0.020 in. ± 0.004 in. (0.508 mm ± 0.102 mm)

T = 0.024 in. MAX. (0.610 mm MAX.)

S = 0.016 in. MIN. (0.406 mm MIN.)



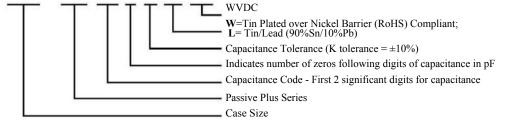


◆ Test Conditions

Typical responses for sample placed on a 10-mil-thick Rogers 4350B microstrip board, sample spanning a 15.5-mil gap in the 21-mil-wide center trace, pad length 12.3 mils. All measurements made using TRL de-embedding procedures.

Part Numbering

0402 BB 10 3 KW 500







PPI0402BB103Data110518RevA