

0402BB (.040" x .020") 0402BB104KW500

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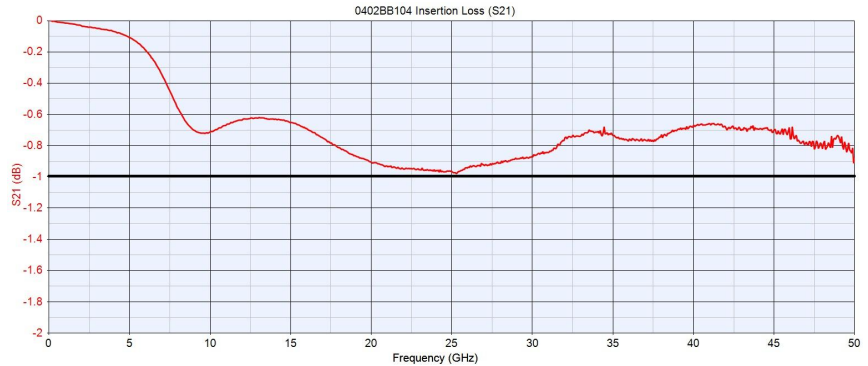
◆ **Product Features**

- Typical operating frequency range: 16 kHz (-3 dB point) to **50 GHz**;
- Insertion Loss: < 1.2 dB, typical; **50 WVDC**;
- Available in **Tin, Gold, and Tin/Lead (90%Sn/10%Pb) Terminations**
- 10K pcs/reel; Lower quantities available in cut tape

◆ **Performance Curves –
Insertion and Return Loss Charts**

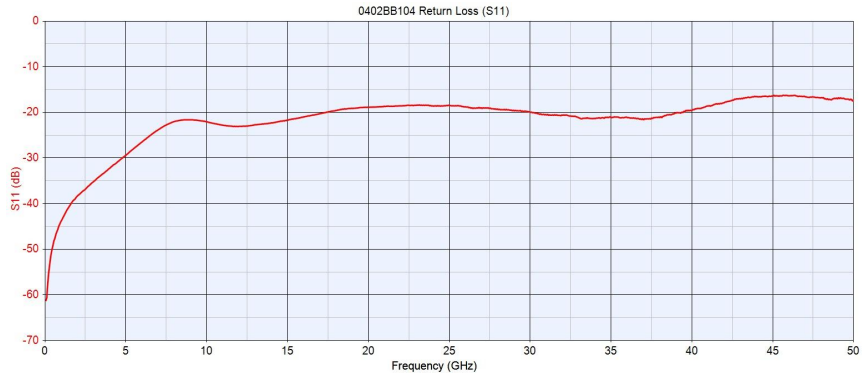
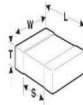
◆ **Electrical Specifications**

- Capacitance: 100 nF
- Operating Temperature Range:
-55 °C to +125 °C
- Temperature Coefficient of Capacitance
(TCC): ±15% (-55 °C to +125 °C)
- Rated Voltage: **50 WVDC**
- Dielectric Withstanding Voltage (DWV):
250% of rated WVDC for 5 secs.
- Insulation Resistance:
10¹¹Ω min. @ +25 °C @ rated WVDC



◆ **Mechanical Dimensions**

L = 0.040 in. ±0.004 in. (1.016mm ±0.102mm)
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.)

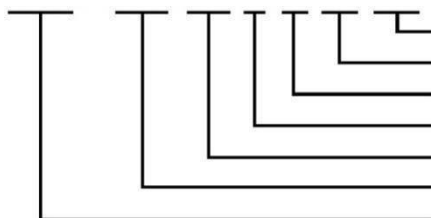


◆ **Test Conditions**

Typical responses for sample placed across
a 15.5 mil gap in a 21-mil-wide trace on
10-mil R04350B.
Measurements de-embedded to sample edge
using TRL calibration procedures.

◆ **Part Numbering**

0402 BB 10 4 K W 500



WVDC

W = Tin Plated over Nickel Barrier (RoHS) Compliant; **G** = Gold, Epoxy Mount only
L = Tin/Lead (90%Sn/10%Pb)

Capacitance Tolerance (K tolerance = +/-10%)

Indicates number of zeroes following digits of capacitance in pF

Capacitance Code – First 2 significant digits for capacitance

Passive Plus Series

Case Size

Modelithics®

