

# **Broadband Capacitors**

#### 0201BB (.020" x .010")

# 0201BB (.020" x .010") 0201BB103KW250

#### Product Features

Typical operating frequency range: 160kHz (- 3 dB point) to > 32 GHz;

Insertion Loss: < 1 dB, typical; 25 WVDC; Available in Tin, Gold, or Tin/Lead (90%Sn/10%Pb) Terminations;

15K pcs/reels; lower quantities in cut tape; also available in Waffle Packs

#### Electrical Specifications

- Capacitance: 10nF
- Operating Temperature Range: -55°C to +125°C
- Temperature Coefficient of Capacitance (TCC):

±15% (-55°C to +125°C)

- Rated Voltage: 25 WVDC
- Dielectric Withstanding Voltage (DWV): 250% of rated WVDC for 5 secs.

Insulation Resistance:

10^11Ω min. @ +25°C @ rated WVDC

## Mechanical Dimensions

$$\begin{split} L &= 0.023 \text{ in. } \pm 0.002 \ (0.58 \text{mm} \ \pm .06 \text{mm}) \\ W &= 0.012 \text{ in. } \pm 0.002 \ (0.3 \text{mm} \ \pm .06 \text{mm}) \\ T &= 0.013 \text{ in. Typ. } (0.33 \text{mm}) \\ S &= 0.008 \text{ in. Typ. } (0.2 \text{mm}) \end{split}$$

## Test Conditions

Part Numbering

Typical responses for sample placed across a 3-mil gap in a 13-mil-wide trace on 6.6mil RO4350.

Measurements de-embedded to sample edges using TRL calibration procedures.

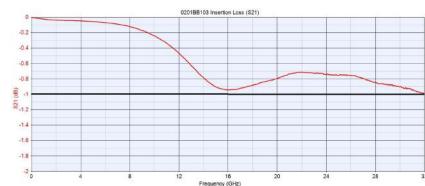
# 0201 BB 10 3 K W 250

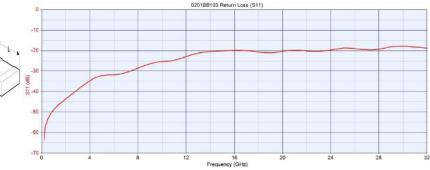
WVDC
W = Tin Plated over Nickel Barrier (RoHS) Compliant; G = Gold, Epoxy Mount only; L = Tin/Lead (90%Sn/10%Pb)
Capacitance Tolerance (K tolerance = +/-10%)
Indicates number of zeroes following digits of capacitance in pF
Capacitance Code – First 2 significant digits for capacitance
Passive Plus Series
Case Size



PPI0201BB103Data072420RevA

#### • Performance Curves --Insertion and Return Loss Charts





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