**0201BB (.020” x .010”) 0201BB104KW160**

**◆ Product Features**

Typical operating frequency range: 16 kHz (-3 dB point) to > 40 GHz;

Insertion Loss: < 1 dB, typical; 16 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: 100nF
- Operating Temperature Range: -55°C to +125°C
- Temperature Coefficient of Capacitance (TCC): ±15% (-55°C to +125°C)
- Rated Voltage: 16 WVDC
- Dielectric Withstanding Voltage (DWV): 250% of rated WVDC for 5 secs.
- Insulation Resistance:
  \[ 10^{10}\Omega \text{ min. } @ +25°C @ \text{ rated WVDC} \]

**◆ Mechanical Dimensions**

\[
\begin{align*}
L &= 0.023 \text{ in. } \pm 0.002 \text{ in. (0.58mm } \pm 0.06\text{mm)} \\
W &= 0.012 \text{ in. } \pm 0.002 \text{ in. (0.3mm } \pm 0.06\text{mm)} \\
T &= 0.013 \text{ in. Typ. (0.33mm)} \\
S &= 0.008 \text{ in. Typ. (0.2mm)}
\end{align*}
\]

**◆ Test Conditions**

Typical responses for sample placed across a 5-mil gap in a 13.8-mil-wide trace on a 6.6mil RO4350.

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

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

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**◆ Part Numbering**

0201 BB 10 4 K W 160

WVDC

\[ W = \text{Tin Plated over Nickel Barrier (RoHS Compliant); G = Gold, Epoxy Mount only; L = Tin/Lead (90%Sn/10%Pb)} \]

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

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www.passiveplus.com  +1 (631) 425-0938  sales@passiveplus.com