● **Product Features**

Typical operating frequency range: 160 kHz (-3 dB point) to > 3 GHz;
Insertion Loss: < 0.25dB, typical; 100 WVDC
Available in Tin or Tin/Lead (90%Sn/10%Pb) Terminations

● **Electrical Specifications**

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

● **Mechanical Dimensions**

\[ L = 0.080\text{in.} \pm 0.006\text{in.} \ (2.03\text{mm} \pm 0.15\text{mm}) \]
\[ W = 0.050\text{in.} \pm 0.006\text{in.} \ (1.27\text{mm} \pm 0.15\text{mm}) \]
\[ T = 0.040\text{in.} \ \text{MAX.} \ (1.02\text{mm}) \]
\[ S = 0.044\text{in.} \ \text{MIN.} \ (1.12\text{mm}) \]

● **Test Conditions**

Typical responses for a horizontally oriented sample (electrodes parallel to plane of substrate) placed across a 25.5-mil gap in a 42.5-mil-wide trace on 20-mil Rogers 4003C.

Measurements are de-embedded to sample edge using TRL calibration procedures.

● **Part Numbering**

0805 BB 10 3 K W 101

0805BB (.080” x .050”) 0805BB103KW101

WVDC

W = Tin plated over Nickel Barrier (RoHS) Compliant L = Tin/Lead (90%Sn/10%Pb)
Capacity 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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