

0805BB (.080" x .050") 0805BB103KW101

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◆ Product Features

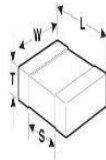
Typical operating frequency range: 160 kHz (-3 dB point) to > 3 GHz;
Insertion Loss: < 0.25dB, typical; 100 WVDC
Available in Tin or Tin/Lead (90%Sn/10%Pb) Terminations

◆ Electrical Specifications

- Capacitance: 10nF
- Operating Temperature Range: -55°C to +125°C
- Temperature Coefficient of Capacitance (TCC):
± 15% (-55°C to +125°C)
- Rated Voltage: 100 WVDC
- Dielectric Withstanding Voltage (DWV):
250% of rated WVDC for 5 secs.
- Insulation Resistance:
10¹¹Ω min. @ +25°C @ rated WVDC

◆ Mechanical Dimensions

- L = 0.080in. ±0.006 in. (2.03mm ±0.15mm)
- W = 0.050 in. ±0.006 in. (1.27mm ±0.15mm)
- T = 0.040 in. MAX. (1.02mm)
- S = 0.044 in. MIN. (1.12mm)



◆ 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

- 0805: Case Size
- BB: Passive Plus Series
- 10: Capacitance Code – First 2 significant digits for capacitance
- 3: Indicates number of zeroes following digits of capacitance in pF
- K: Capacitance Tolerance (K tolerance = +/-10%)
- W: Tin Plated over Nickel Barrier (RoHS) Compliant
- 101: L = Tin/Lead (90%Sn/10%Pb)

◆ Performance Curves -- Insertion and Return Loss Charts

