**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: $10^{11}\Omega$ min. @ +25°C @ rated WVDC

**Mechanical Dimensions**

$L = 0.080$in. ± 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
```

<table>
<thead>
<tr>
<th>WVDC</th>
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</thead>
<tbody>
<tr>
<td>$W =$ Tin Plated over Nickel Barrier (RoHS) Compliant</td>
</tr>
<tr>
<td>$L =$ Tin/Lead (90%Sn/10%Pb)</td>
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</tbody>
</table>

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