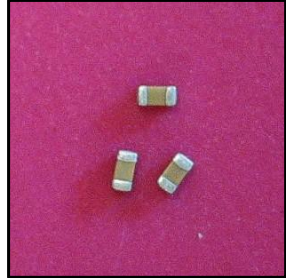




0402BB103KW500
(0.040" x 0.020")

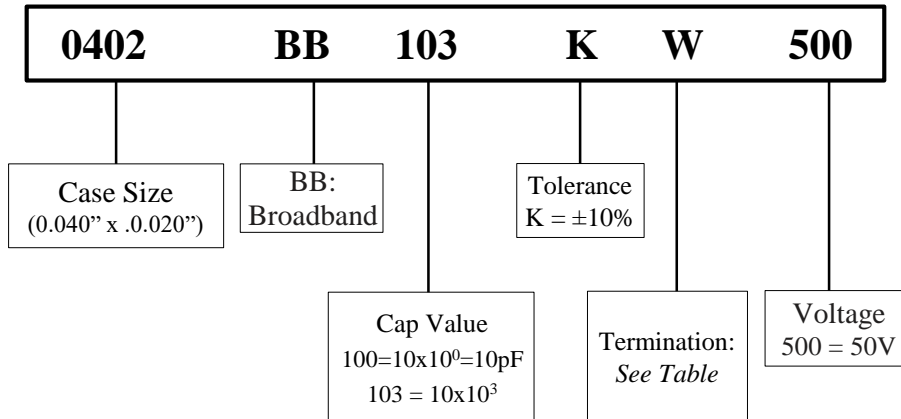
≠ PPI Broadband Capacitors are subjected to standard measurements (Capacitance, TCC, DWV), and extensive RF Characteristics testing. This guarantees every lot will meet or exceed expectations.



≠ **Product Features**

| | |
|--|---|
| • Typical Operating Frequency Range | 160 kHz (-3dB point) to > 40 GHz |
| • Insertion Loss | < 1dB, typical |
| • Tape & Reel | 10K pcs/reel; Lower quantities available in cut tape |
| • Capacitance | 10nF |
| • Operating Temperature Range | -55°C to +125°C |
| • Temperature Coefficient of Capacitance (TCC) | (±15%, -55°C to +125°C) |
| • Rated Voltage | 50 WVDC |
| • Dielectric Withstanding Voltage (DWV) | 250% of rated WVDC for 5 seconds |

≠ **Part Numbering**



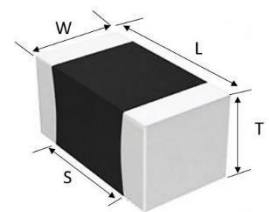
≠ **Terminations**

| Code | Termination |
|------|---|
| W | Tin Plated over Nickel Barrier (RoHS Compliant) |
| G | Gold Epoxy Mount Only |
| L | Tin/Lead (90%Sn/10%Pb) |



≠ **Capacitor Dimensions**

| Length | Width | Thickness | Gap |
|--|--|--------------------------------|----------------------------------|
| L | W | T | S |
| 0.040 in. ± 0.004 (1.016mm ± 0.102mm) | 0.020 in. ± 0.004 (0.508mm ± 0.102mm) | 0.024 in. MAX (0.610mm MAX) | 0.016 in. MIN (0.406 min MIN) |





≠ Performance Curves



≠ Test Conditions

Typical responses for sample placed across a 15.5 mil (0.393 mm) gap between 21.0 mil (0.533 mm) wide, 12.3 mil (0.312 mm) long mounting pads on 10-mil Rogers RO4350B. Measured data was de-embedded using TRL calibration procedures.