0402BB (.040” x .020”) 0402BB103KW500

◆ Product Features
• Typical operating frequency range: 160 kHz (-3 dB point) to 40 GHz;
• Insertion Loss: < 1 dB, typical; 50 WVDC
• Available in Tin, and Tin/Lead (90%Sn/10%Pb) Terminations
• Available in 10K pcs/reel; Lower quantities available in cut-tape.

◆ Electrical Specifications
• Capacitance: 10 nF
• 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 secs.
• Insulation Resistance: $10^{11} \Omega$ min. @ +25°C @ rated WVDC

◆ Mechanical Dimensions
L = 0.040 in. ± 0.004 in. (1.016 mm ± 0.102 mm)
W = 0.020 in. ± 0.004 in. (0.508 mm ± 0.102 mm)
T = 0.024 in. MAX. (0.610 mm MAX.)
S = 0.016 in. MIN. (0.406 mm MIN.)

◆ Test Conditions
Typical responses for sample placed on a 10-mil-thick Rogers 4350B microstrip board, sample spanning a 15.5-mil gap in the 21-mil-wide center trace, pad length 12.3 mils. All measurements made using TRL de-embedding procedures.

◆ Part Numbering
0402 BB 103 K W 500

WVDC
W = Tin Plated over Nickel Barrier (RoHS) Compliant;
L = Tin/Lead (90%Sn/10%Pb)
Capacitance Tolerance (K tolerance = ±10%)
Indicates number of zeros following digits of capacitance in pF
Capacitance Code - First 2 significant digits for capacitance
Passive Plus Series
Case Size