01005BB (.010” x .005”) 01005BB104MW6R3

◆ Product Features

• Typical operating frequency range: 16 kHz (- 3 dB point) to > 67 GHz;
• Insertion Loss: < 1 dB, typical; 6.3 WVDC;
• Available in 40K pcs/ reel; Lower quantities available in cut tape

◆ Electrical Specifications

• Capacitance: 100 nF, nom.
• Operating Temperature Range: -55°C to +85°C
• Temperature Coefficient of Capacitance (TCC): (± 15% , -55°C to +85°C)
• Rated Voltage: 6.3 WVDC
• Dielectric Withstanding Voltage (DWV): 250% of rated WVDC for 5 secs.
• Insulation Resistance: 10^11Ω min. @ +25°C @ rated WVDC

◆ Mechanical Dimensions

L = 0.016 in. ± 0.001 in. (0.4 mm ± 0.02 mm)
W = 0.008 in. ± 0.001 in. (0.2mm ± 0.02 mm)
T = 0.008 in. ± 0.001 in. (0.2mm ± 0.02 mm)
S = 0.005 in., min. (0.13 mm, min.)

◆ Test Conditions

Typical responses for sample placed across a 0.127 mm (5.0 mil) gap; between 0.290 mm (11.4 mil) wide, 0.216 mm (8.5 mil) length mounting pads, on 4-mil Rogers RO4350B. 50-Ohm Trace Width on substrate is 0.203 mm (8 mil). Measured data is de-embedded to the mounting pad edges using TRL calibration procedure.

◆ Part Numbering

01005 BB 104 M W 6R3

WVDC
Tin Plated over Nickel Barrier (RoHS) Compliant
Capacitance Tolerance (M tolerance = ± 20%)
Indicates number of zeros following digits of capacitance in pF
Capacitance Code – First 2 significant digits for capacitance
Passive Plus Series
Case Size