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

◆ Product Features
• Typical operating frequency range: 16 kHz (-3 dB point) to > 40 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 0.076 mm (3.0 mil) gap between 0.203 mm (8.0 mil) wide mounting pads on 4-mil Rogers RO4350B. Measured data is de-embedded to the mounting pad edges using TRL calibration procedures.

◆ 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

Broadband Capacitors
01005 (.010” x .005”)

Performance Curves – Insertion and Return Loss Charts

S21 Insertion Loss

S11 Return Loss