0201BB (.020" x .010") 100nF



◆ Product Features

Typical operating frequency range: 16 KHz (- 3 dB point) to > 40 **GHz;**

Insertion Loss: < 1 db, typical; 16 WVDC; Available in Tin or Gold Terminations;

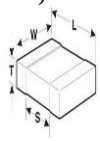
15K pcs/reels; lower quantities in cut tape; also available in Waffle Packs

◆ Electrical Specifications

- Capacitance: 100nF
- Operating Temperature Range: -55ºC to +125ºC
- Temperature Coefficient of Capacitance (TCC):
  ±15% (-55ºC to +125ºC)
- Rated Voltage: 16 WVDC
- Dielectric Withstanding Voltage (DWV):
  250% of rated WVDC for 5 secs.
- Insulation Resistance:
  10^11Ω min. @ +25ºC @ rated WVDC

◆ Mechanical Dimensions

L = 0.023 in. ±0.001 in. (0.58mm ±0.03mm)
W = 0.012 in. ±0.001 in. (0.3mm ±0.03mm)
T = 0.0118 in. MAX. (0.3mm)
S = 0.0078 in. MIN. (0.2mm MIN.)



◆ Test Conditions

Typical responses for sample placed across a 3-mil gap in a 12.5-mil-wide trace on 6.6mil RO4350B.

Measurements de-embedded to sample edges using TRL calibration procedures.

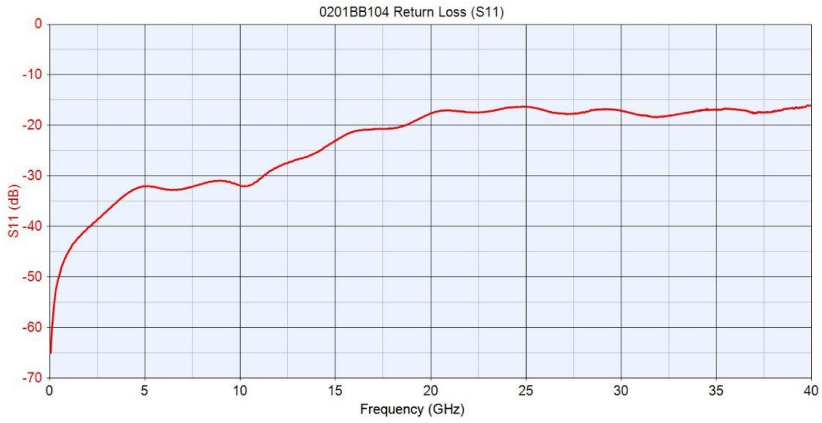
◆ Modeling Data

• S-Parameters available on PPI website (http://www.passiveplus.com/designsupp.php).

• Full models also available on Modelithics website at http://www.modelithics.com/mvp/PassivePlus/

◆ Performance Curves -- Insertion and Return Loss Charts





◆ Part Numbering

Modelithics

0201 BB 10 4 K W 160

- 160 — WVDC
- W — **W** = Tin Plated over Nickel Barrier (RoHS) Compliant; **G** = Gold, Epoxy Mount only
- K — Capacitance Tolerance (K tolerance = +/-10%)
- 4 — Indicates number of zeroes following digits of capacitance in pF
- 10 — Capacitance Code – First 2 significant digits for capacitance
- BB — Passive Plus Series
- 0201 — Case Size