

LEAD-FREE / RoHS-COMPLIANT

MINIATURE SURFACE-MOUNT BIAS-TEE

BT-0014SMG

Features

- Frequency Range: 500 kHz to 14 GHz
- Frequency Range with [External Coil](#): 5 kHz to 14 GHz
- DC Current 500 mA
- Miniature Surface Mount Package
- Lead Free Assembly
- [Reflow Solderable](#)

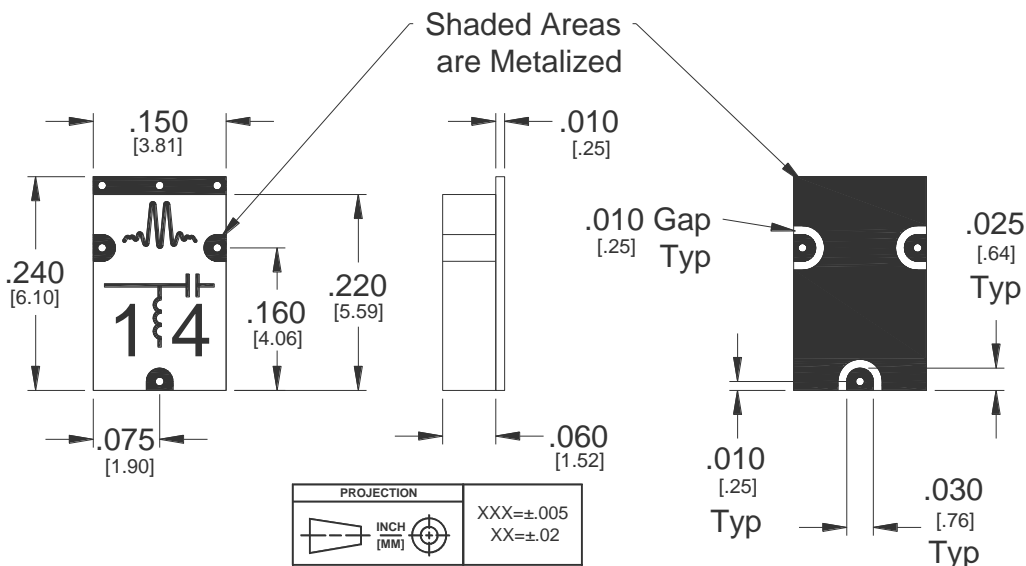


Electrical Specifications - Specifications guaranteed from -55 to +100°C, measured in a 50-Ohm system

| Parameter | Frequency Range | Min | Typ | Max | |
|------------------------|-------------------|-----|-----|-----|----|
| Insertion Loss (dB) | 5 MHz to 14 GHz | | 0.5 | 1.5 | |
| | 500 kHz to 5 MHz | | 1 | 6 | |
| DC Current (mA) | 500 kHz to 14 GHz | | | 500 | |
| DC Resistance (Ohms) | | | 1 | 2 | |
| DC Port Isolation (dB) | | | | 40 | |
| DC Voltage Maximum (V) | | | | | 30 |
| RF Power Maximum (W) | | | | | 1 |
| | | | | | |

| Model ¹ | Description |
|------------------------------|---|
| BT-0014SMG-1 BT-0014SMG-2 | 500 kHz - 14 GHz Bias Tee, Surface Mount, LEAD-FREE/RoHS COMPLIANT |

¹Default is -2 when not specified.
Connectorized evaluation fixtures available. Consult factory.



Substrate material is 10-mil thick Rogers 5880 or Taconic TLY-5, ½ Oz Electrodeposited Cu.
I/O Pads & Ground Plane Finish is Gold Flash, 1.2 to 2.7 μ-inches, over Solderable Electroless Nickel, 100-200 μ-inches, over Cu.
See <http://www.markimicrowave.com/menus/appnotes/an-bt-sm-pcb.pdf> for suggested PCB layout.

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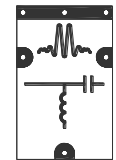
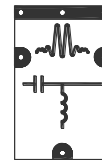
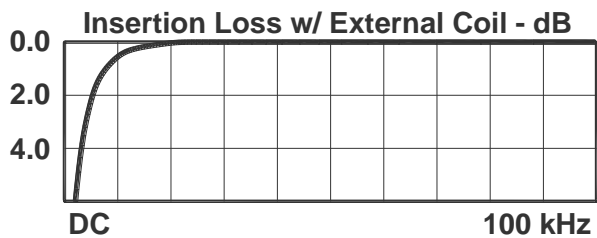
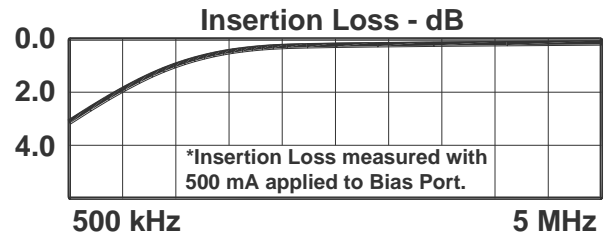
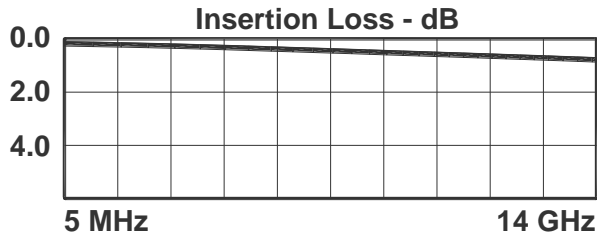
MINIATURE SURFACE MOUNT BIAS TEE

BT-0014SMG

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Input 500 kHz to 14 GHz

Typical Performance



BT-0014SMG-1

BT-0014SMG-2

Port Configuration Options

NOTE:

Specifications are subject to change without notice. Contact Marki Microwave for the most recent specifications and data sheets.

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