

# MINIATURE SURFACE-MOUNT BIAS-TEE

# BT-0024SM

### Features

- Frequency Range: 500 kHz to 24 GHz
- Frequency Range with [External Coil](#): 5 kHz to 24 GHz
- DC Current 500 mA
- Miniature Surface Mount Package
- [Reflow Solderable](#)

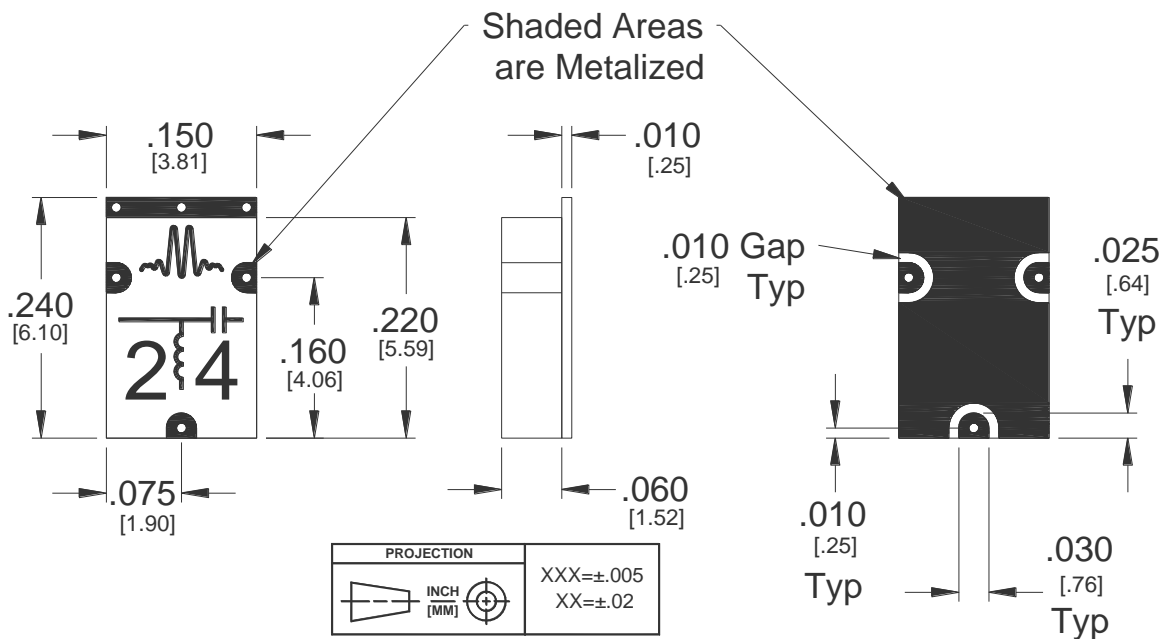


**Electrical Specifications** - Specifications guaranteed from -55 to +100°C, measured in a 50-Ohm system

| Parameter              | Frequency Range   | Min | Typ  | Max |
|------------------------|-------------------|-----|------|-----|
| Insertion Loss (dB)    | 5 MHz to 24 GHz   |     | 1    | 2.0 |
|                        | 500 kHz to 5 MHz  |     | 1    | 6   |
| DC Current (mA)        | 500 kHz to 24 GHz |     |      | 500 |
| DC Resistance (Ohms)   |                   |     | <1.5 |     |
| DC Port Isolation (dB) |                   |     |      | 40  |
| DC Voltage Maximum (V) |                   |     |      | 30  |
| RF Power Maximum (W)   |                   |     |      | 1   |

| Model <sup>1</sup>         | Description                              |
|----------------------------|--|
| BT-0024SM-1<br>BT-0024SM-2 | 500 kHz - 24 GHz Bias Tee, Surface Mount |

<sup>1</sup>Default 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 100-300 μ-inches 60/40 Pb/Sn Solder Plate, over Cu.  
See <http://www.markimicrowave.com/menus/appnotes/an-bt-sm-pcb.pdf> for suggested PCB layout.

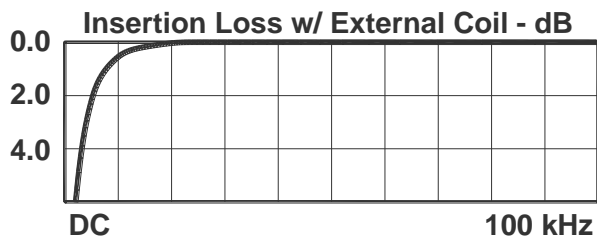
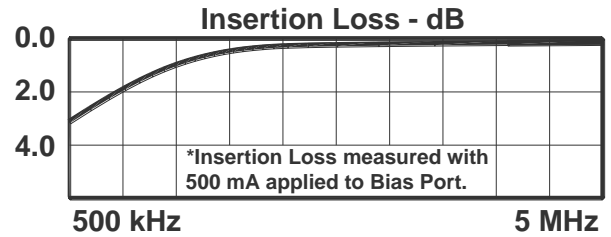
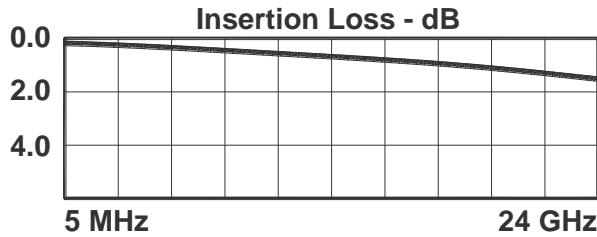
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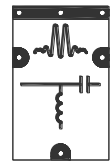
Page 2

Input 500 kHz to 24 GHz

Typical Performance



BT-0024SM-1



BT-0024SM-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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