

## LEAD-FREE / RoHS-COMPLIANT

### MINIATURE SURFACE-MOUNT BIAS-TEE

### BT-0034SMG

#### Features

- Frequency Range: 500 kHz to 34 GHz
- Frequency Range with [External Coil](#): 5 kHz to 34 GHz
- 1 Watt RF Power Handling
- Miniature Surface Mount Package
- Lead Free Assembly
- [Reflow Solderable](#)

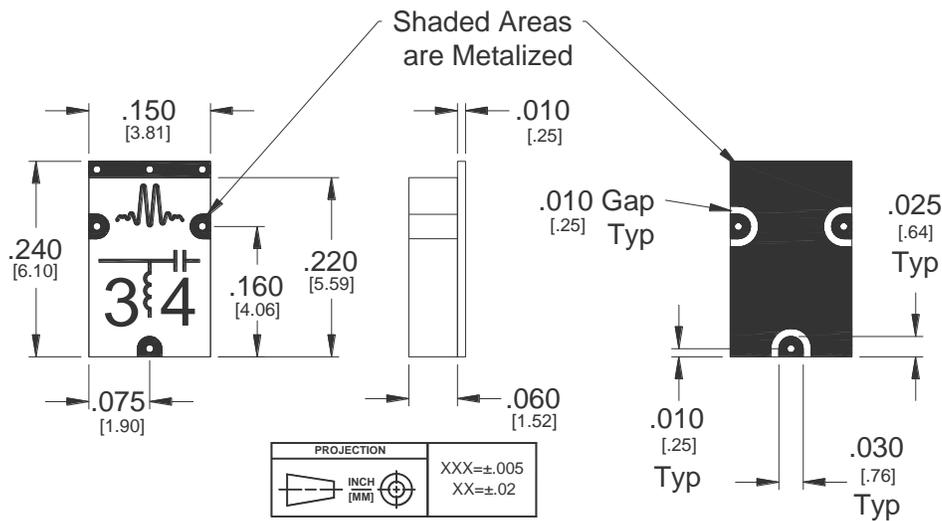


**Electrical Specifications** - Specifications guaranteed from -55 to +100°C, measured in a 50-Ohm system

Parameter	Frequency Range	Min	Typ	Max
Insertion Loss (dB)	5 MHz to 30 GHz		1	2.5
	30 to 34 GHz		3	
	500 kHz to 5 MHz		1	6
DC Current (mA)	500 kHz to 34 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-0034SMG-1 BT-0034SMG-2	500 kHz - 34 GHz Bias Tee, Surface Mount, <b>LEAD-FREE/RoHS COMPLIANT</b>

<sup>1</sup>Default is -2 when not specified.  
Connectorized test 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, 5 to 10 μ-inches, over Solderable Electroless Nickel, 100-200 μ-inches, over Cu.  
See <http://www.markimicrowave.com/menu/appnotes/an-bt-sm-pcb.pdf> for suggested PCB layout.

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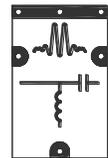
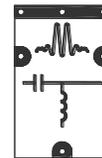
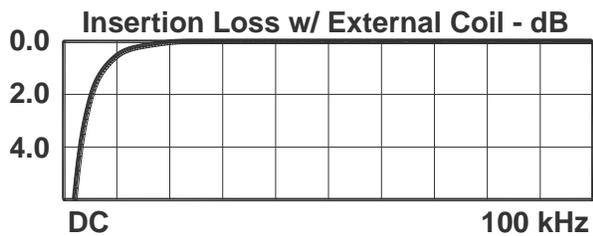
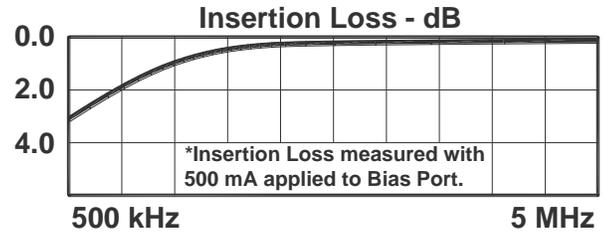
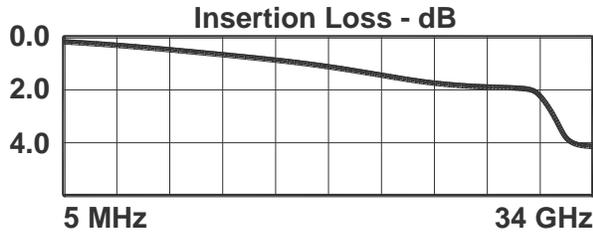
**MINIATURE SURFACE MOUNT BIAS TEE**

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**BT-0034SMG**

Input 500 kHz to 34 GHz

Typical Performance



**BT-0034SMG-1**

**BT-0034SMG-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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