



COAXIAL

# Bias-Tee

# Z3BT-2R15G+

50Ω 5 to 2600 MHz

SMA Female

### KEY FEATURES

- DC pass through: 7A, 100V
- Low insertion loss, 0.9dB Typ.
- Good Isolation, 40dB Typ.
- Power handling, 7W

### APPLICATIONS

- Satellite IF band
- Satellite Receivers / Transmitters
- Test accessory

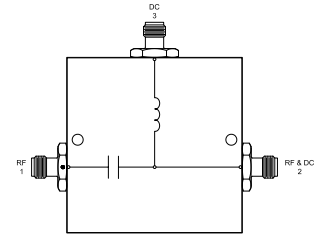
### PRODUCT OVERVIEW

Mini-Circuits' Z3BT-2R15G+ is a Low loss bias tee designed for use with L-Band systems, capable of injecting up to 7A, this Bias tee is ideal for satellite communications applications. Built in a rugged shielded case, the Z3BT-2R15G+ is equipped with SMA Female connectors for all ports. The Z3BT-2R15G+ is ideally suited for powering Satellite up converters and LNBS where RF and DC are injected on a single coax cable.



Generic photo used for illustration purposes only

### FUNCTIONAL DIAGRAM



### ELECTRICAL SPECIFICATIONS AT +25°C

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Units
Frequency Range	5 - 2600	5	—	2600	MHz
Insertion Loss	5 - 10	—	0.3	1.0	dB
	10 - 2200	—	0.9	1.8	
	2200 - 2600	—	0.9	2.2	
Return Loss (RF Port)	5 - 10	12.74	26.44	—	dB
	10 - 1300	13.98	20.83	—	
	1300 - 2600	12.74	17.7	—	
Return Loss (RF & DC Port)	5 - 10	12.74	26.44	—	dB
	10 - 1300	13.98	20.83	—	
	1300 - 2600	12.74	17.7	—	
Isolation (RF to DC Port)	5 - 10	25	40	—	dB
	10 - 1300	40	55	—	
	1300 - 2200	37	45	—	
	2200 - 2600	20	35	—	
Isolation (DC to RF & DC Port)	5 - 10	25	40	—	dB
	10 - 1300	40	55	—	
	1300 - 2200	35	45	—	
	2200 - 2600	20	35	—	
DC Resistance (DC to RF & DC Port)	—	—	0.5	—	Ohm

### ABSOLUTE MAXIMUM RATINGS<sup>1</sup>

Operating Case Temperature	-40° C to +85° C
Storage Temperature	-55° C to +100° C
Input Power	7W
Voltage at DC Port	100V
Current at DC Port	7A

1. Permanent damage may occur if any of these limits are exceeded.

REV. B  
ECO-014462  
Z3BT-2R15G+  
EDU2049  
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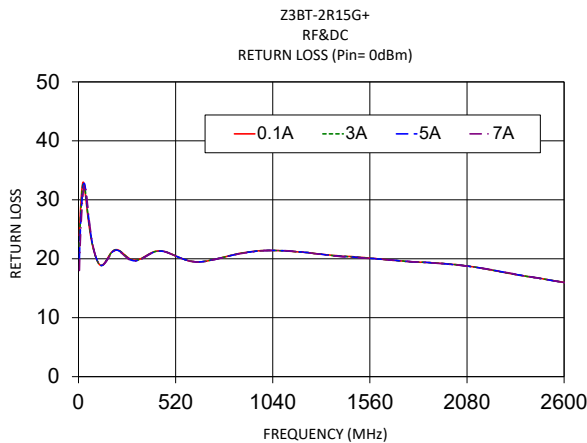
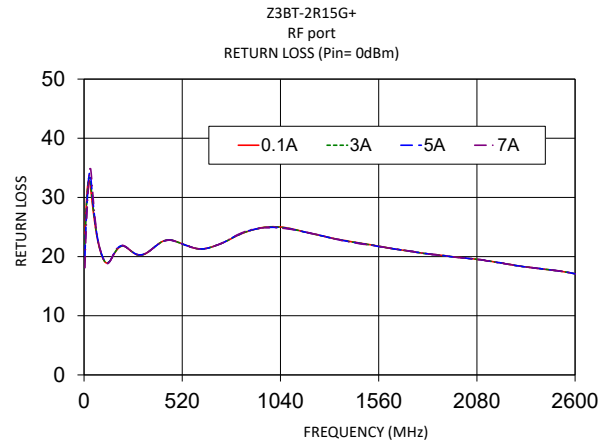
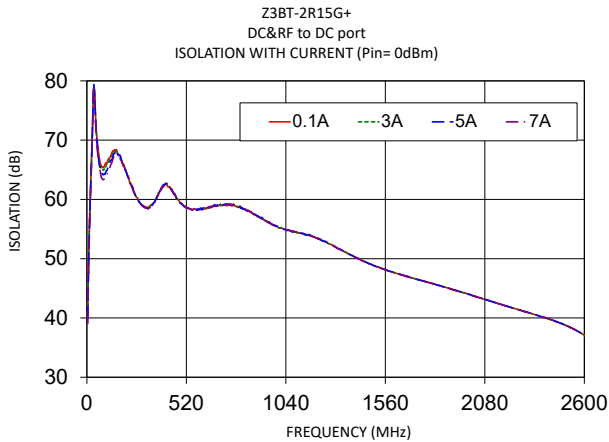
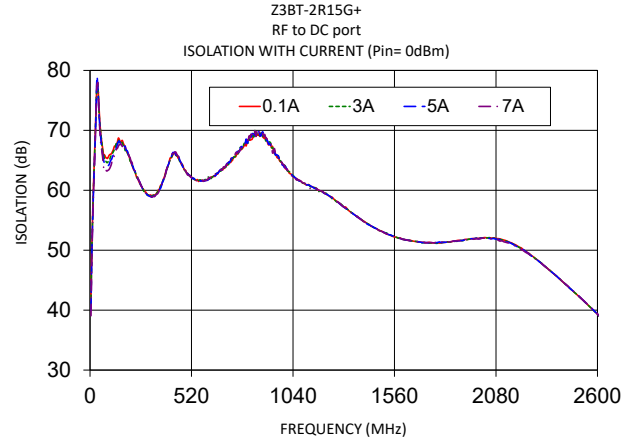
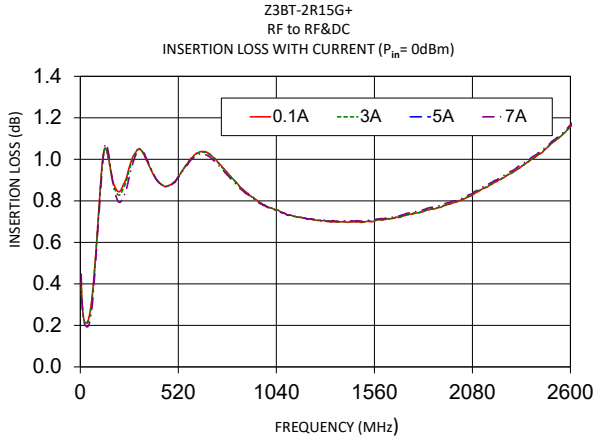
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SMA Female

### TYPICAL PERFORMANCE GRAPHS





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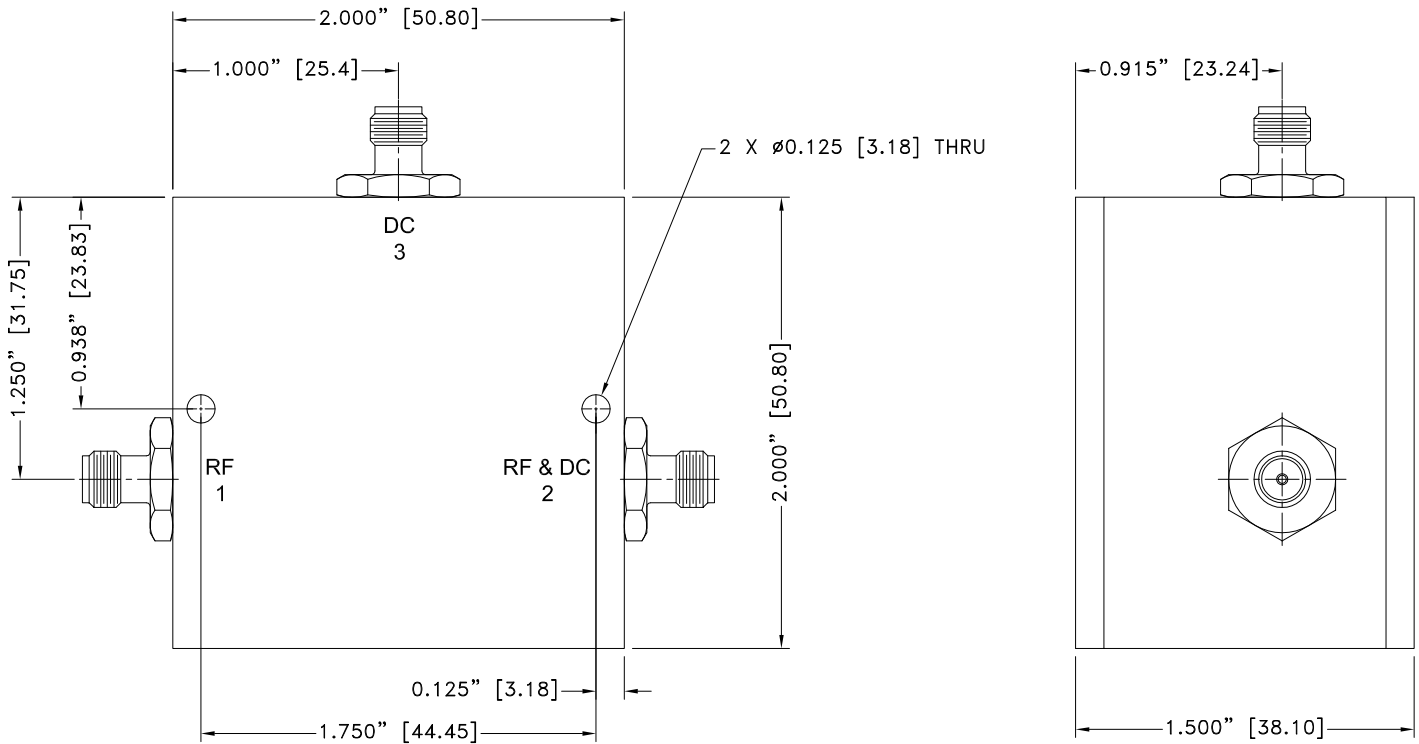
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### COAXIAL CONNECTIONS

Description	RF PORT	RF & DC PORT	DC PORT	GROUND
Connector Type	SMA Female	SMA Female	SMA Female	—
Orientation	1	2	3	—

### CASE STYLE DRAWING



Unit Weight: 154 Grams.

Dimensions are in inches (mm). Tolerances: 2 Pl. ± .03; 3 Pl. ± .015

### PRODUCT MARKING\*: Z3BT-2R15G+

\*Marking may contain other features or characters for internal lot control.





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ADDITIONAL INFORMATION IS AVAILABLE ON OUR DASHBOARD

[CLICK HERE](#)

Performance Data & Graphs	Data
	Graphs
	S-Parameter (S2P Files) Data Set (.zip file)
Case Style	CC1553
RoHS Status	Compliant
Environmental Ratings	ENV28

#### NOTES

- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
- C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the standard terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at [www.minicircuits.com/terms/viewterm.html](http://www.minicircuits.com/terms/viewterm.html)

