



Satellite MuxTee

Bias Tee

ZABT-2150-5AFT+

50Ω 10-2150 MHz (10 to 100 MHz, 800 to 2150MHz)

THE BIG DEAL

- Simple installation in a Satellite System
- Integrated L-Band + DC Bias-Tee
- Low RF Insertion Loss: 0.5 dB Typ 800-2150 MHz
- High DC current, 5A
- Feed through terminal for DC port



Generic photo used for illustration purposes only

APPLICATIONS

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

Model No.	ZABT-2150-5AFT+
Case Style	JU1387
Connectors	SMA Female

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

PRODUCT OVERVIEW

The ZABT-2150-5AFT+ is a bias tee designed specifically for satellite communications and wireless infrastructure applications. Built in a rugged shielded case, the ZABT-2150-5AFT+ is equipped with SMA connectors for the L-Band ports and feed through terminal for DC port.

The ZABT-2150-5AFT+ is ideally suited for powering Satellite up converters and LNBS where IF and DC are all injected on a single coax cable.

KEY FEATURES

Feature	Advantages
Low passband insertion loss	Very low insertion loss ensures less signal loss through the device, suitable for high performance applications.
DC Feed	Capable of handling up to 5 Amps and 30 V, the ZABT-2150-5AFT+ can power a wide range of remote amplifiers and converters.
Connectors	RF: SMA Female RF+DC: SMA Female DC: Feed through terminal Ground: Ground



Satellite MuxTee Bias Tee

ZABT-2150-5AFT+

MAXIMUM RATINGS

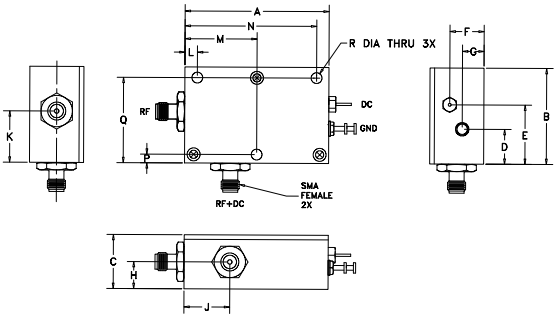
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	27 dBm max.
Voltage at DC port	+30 V max.
Input Current	5A
DC resistance from DC to RF&DC port	0.50Ohm Typ.

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

COAXIAL CONNECTIONS

RF	SMA Female
RF + DC	SMA Female
DC	feed-through terminal
GROUND	GROUND

OUTLINE DRAWING

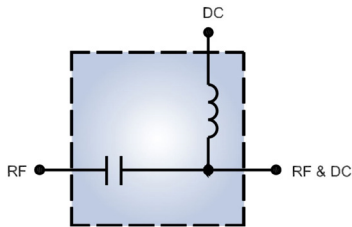


OUTLINE DIMENSIONS (Inch/mm)

A	B	C	D	E	F	G	H	J
2.000	1.333	.750	.484	.823	.475	.300	.375	.635
50.80	33.86	19.05	12.29	20.90	12.07	7.62	9.53	16.13
K	L	M	N	P	Q	R	Wt.	
.713	.172	1.000	1.828	.120	1.186	.140	grams	
18.11	4.37	25.40	46.43	3.05	30.12	3.56		38

Note: Please refer to case style drawing for details

ELECTRICAL SCHEMATIC

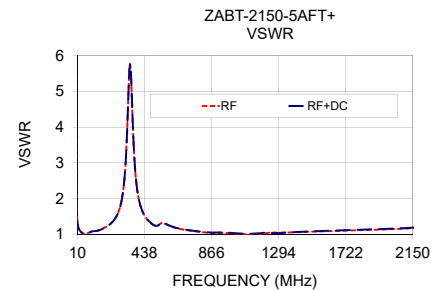
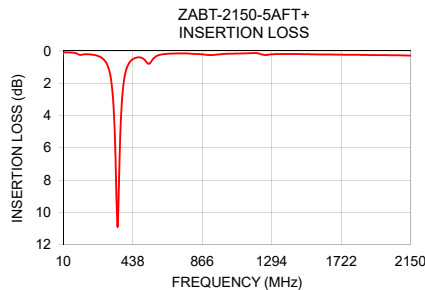


ELECTRICAL SPECIFICATIONS AT 25°C

Parameter	Port	Frequency (MHz)	Min.	Typ.	Max.	Unit
Frequency			10		2150	MHz
Insertion Loss	RF to RF+DC	10 - 100	-	0.4	0.7	dB
		800 - 2150	-	0.5	1.2	
VSWR	RF to RF+DC	10 - 100	-	1.4	1.6	:1
		800 - 2150	-	1.2	1.6	

TYPICAL PERFORMANCE DATA

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	
		RF	RF + DC
10	0.1	1.33	1.33
20	0.1	1.14	1.14
50	0.1	1.02	1.02
100	0.2	1.08	1.08
300	1.5	2.18	2.17
500	0.4	1.25	1.25
700	0.2	1.12	1.13
800	0.2	1.07	1.07
1000	0.2	1.02	1.04
1200	0.1	1.02	1.04
1400	0.2	1.06	1.06
1600	0.2	1.09	1.10
1800	0.2	1.12	1.13
2000	0.3	1.14	1.16
2150	0.3	1.17	1.19



NOTES

- 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.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
- 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/MCLStore/terms.jsp

