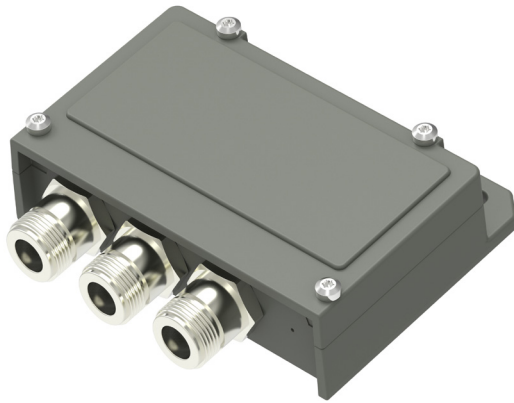# BiasTee DC inserter L-Band

Key features

- **Low through loss for L-Band**

- **Outdoor rated (IP 67)**

- **Wide operating temperature range**

- **DC/L-Band diplexing**

- **Available with F, N or SMA connectors**

Description

The Bias-Tee is used when a external DC input is needed ie Receiver / Modem don't have DC out or the installation require an external DC feed. Available with F, N or SMA connectors.

| 950 MHz |
| 22 kHz |

L-Band + DC blocked   DC input   L-Band + DC out
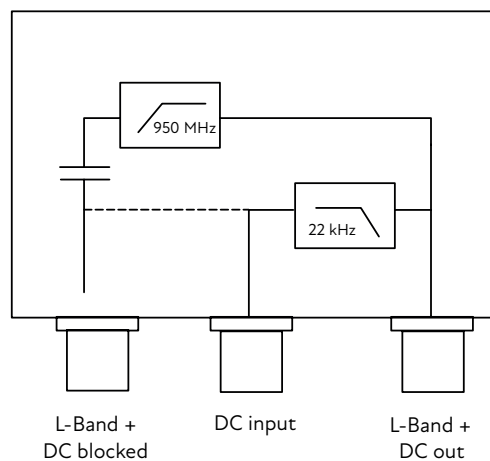
Explore our full product range in this category

BiasTee DC inserter L-Band
Technical specifications

GENERAL	L-Band Frequency	950-2150 MHz
	DC input	+13 to +28 V
	Maximum load	1 A
	Insertion loss	1 dB @ 950-2150 MHz max.
	Return loss Input/Output	N- and SMA-connector: min. 10dB, typ 15 dB, with F connector min. 8dB, typ. 13 dB
	Group delay L-Band	± 1 ns max.
	Dimensions	96 x 28 x 89 mm (N connectors)
	Weight	209 g (F & SMA connectors), 249 g (N connectors)
	Temperature Range	Storage and operating: -40 to +80°C, -40 to +176°F
	MTBF	MTBF as per MIL-HDBK-217F Notice 2: Environmental Condition GF (Ground Fixed): >9000000 hours, Environmental Condition AIC (Airborne, Inhabited, Cargo): >45000000 hours, Quality level: Commercial, Temperature used for MTBF calculation: +35°C Ambient
	Ingress protecion code	IP 67
INTERFACES	22 kHz bypass	Through receiver or external source, n/a with DC Block IN or OUT
	10 MHz bypass	Yes, standard
	Input connector (A)	SMA-type 50Ω female, N-type 50Ω female or F-type 75Ω female
	Output Connector (C)	SMA-type 50Ω female, N-type 50Ω female or F-type 75Ω female
	DC connector (B)	SMA-type 50Ω female, N-type 50Ω female, F-type 75Ω female or 2 m pigtail

SMW ®
SWEDISH MICROWAVE AB

BiasTee DC inserter L-Band

Installation example

Connector A — DC Block + L-Band out + 10 MHz in
Connector B — DC Input
Connector C — DC out + L-Band in + 10 MHz out

Receiver/Modem — PSU — LNB
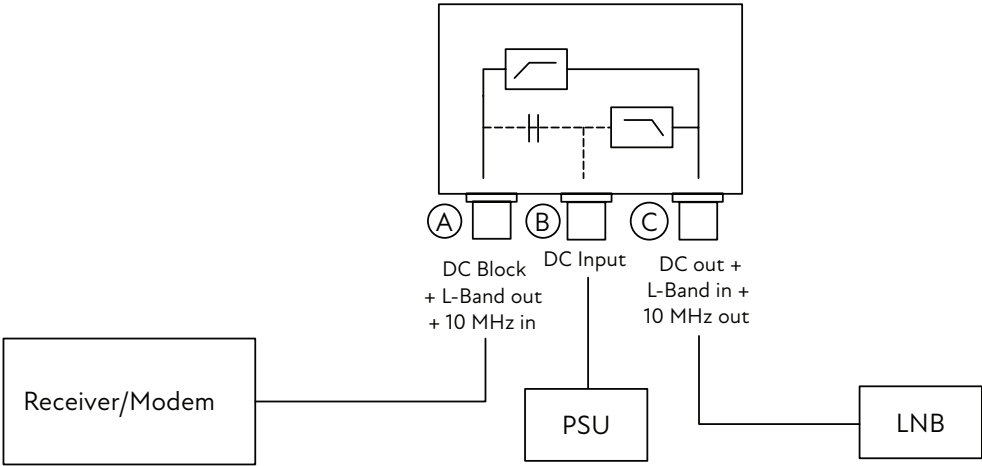
Part number designation for the Bias Tee / DC Inserter

Model		Connector A		Sep. DC input B		Connector C					DC Block A	DC Block C	Future use	Future use		Version
LBIT	-	?		?		?		X		-	?	?	X	X	-	02
		0	F	X	No	0	F	X	N/A		X	No DC block				
		5	N	0	F	5	N				1	DC Block A or C				
		8	SMA	5	N	8	SMA									
				8	SMA											
				9	Pigtail											

Example: L–Band out + DC Block (N), DC input (Pigtail), DC out + L–Band in (N) =
LBIT-595X-1XXX-02

BiasTee DC inserter L-Band
Technical Drawing

27,60

⌀4,50   74,30

88,60   73,70

96,30
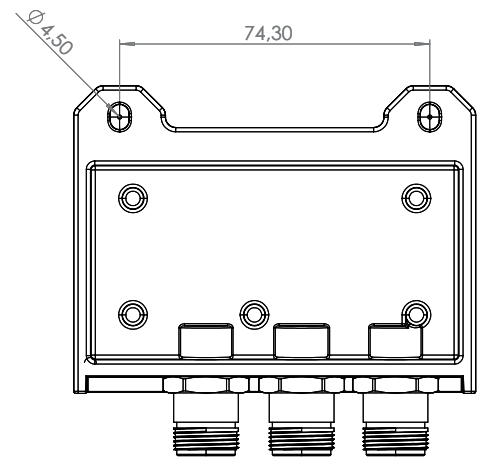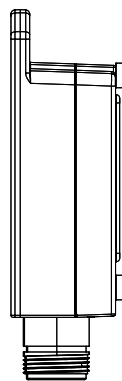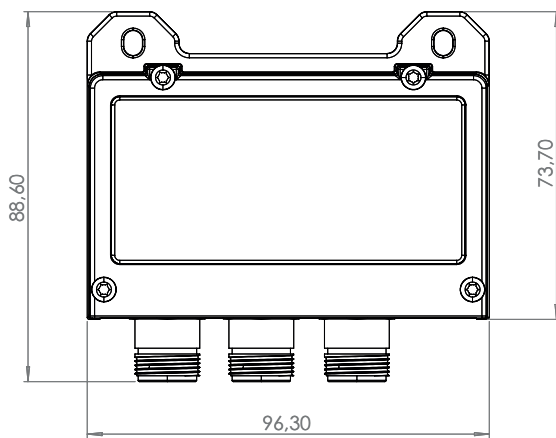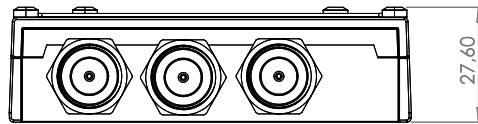
Professional Satcom Frequency Converters & Components. All products are fully CE and RoHS compliant and every unit includes full documentation of performance tests and quality control. Please contact sales@smw.se to configure or customize the unit to your needs. Visit smw.se or scan QR code to see our full product range and request a quote.

ESATCOM INC

Esatcom Inc   Tel   Email
SMW authorized distributor   718.799.0084   sales@esatcom.com
www.esatcom.com

Rev. 2401