

SVP

BROADCAST
MICROWAVE

BIAS INSERTER TEE (BIAS-TEE)

MANUAL V2.2



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1 Description

The Bias Tee is very useful to give power supply to an equipment connected to the other end of the coaxial cable, as an LNA or a down-converter.

For it, it has a N male connector, a N female connector and an EGG Lemo female connector. The N male connector should be connected to the receiver input and the N female connector to the LNA's RF output through the coaxial cable. The DC power inserted through the Lemo connector, supporting a maximum of 30 V / 1A.

This equipment is protected from short-circuits by means of an autoreseteable fuse.

The cable with FGG Lemo male connector that is used to insert the DC power is not supplied with the bias insertion tee (BIAS-TEE).

In the following figure the bias insertion tee (BIAS-TEE) is showed, where the previously mentioned connections are appreciated:



Figure 1.1 Bias Insertion Tee. BIAS-TEE

2 Technical features

2.1 BIAS-TEE

Item	Feature
Frequency range	From 10 to 6000 MHz
Insertion loss	≤1dB @ range from 2000 MHz to 6000 MHz
Max. RF Power	1 W
Supply voltage range	From +9V to +30V DC
Current Rating	0.5A max.
DC input connector	LEMO 1B of 4 pins
RF&DC connector	N female, 50 Ohms
RF connector	N male, 50 Ohms
Size	Width: 50mm Height: 30mm (without connectors) Depth: 22mm

Table 1 Bias Tee features

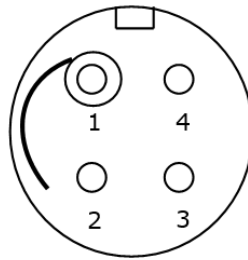
2.2 EGG and FGG Lemo connectors

Power supply connectors

Item	Features
Connector type	4 pin Lemo 1B
Part number (panel connector)	ECG.1B.304
Part number (cable connector)	FGG.1B.304.CLAD52

Table 2: Power supply connection technical features

Power supply connector pinout



Pinout

Figure 2.1: Connector pinout

Pin	Description
1	GND
2	GND
3	+ VCC
4	+ VCC

Table 3: Power supply connector pinout

NOTES:

End note

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