

BT-10G

Bias-T 100-8500MHz

BT-10G is outdoor current injector/extractor designed especially for very wideband RF-systems. Low insertion loss and wide frequency range practically up to 10GHz provide attractive possibilities for using of BT-10G in many applications.

Features:

• Wideband

- Low insertion loss
- Outdoor
- Compact and reliable
- Wide voltage range
- Widespread type of DC-input

Applications:

- Radio-monitoring
- Small signals receiving
- RF/IF-systems



RF characteristics*

Frequency range		100-8500				
IN/OUT impedance		50/50				
	100MHz	3000MHz	6000MHz	8500MHz	10000MHz	
Insertion loss	1.2	0.8	0.8	0.8	1.0	dB
VSWR IN	1.6	1.3	1.3	1.3	2.0	dB
VSWR OUT	1.6	1.3	1.3	1.3	2.0	dB

^{*} Measured at temperature T=+25°C

DC and mechanical characteristics

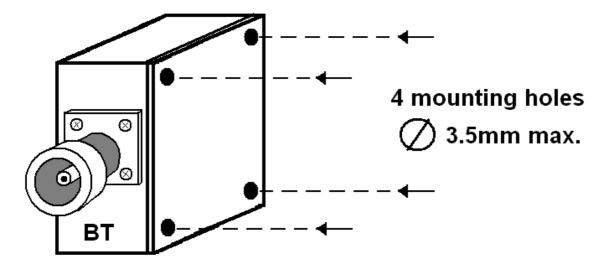
Operating voltage (DC)	0+17 (on order up to +32V available)	
IN/OUT Connector	N-type female/ N-type female	
Enclosure type	Outdoor, aluminium	
Mounting	Suitable for mounting onto flat surface	
DC input	2.1mm input, positive is on central pin	
Dimensions (without mounting clip)	73x49x22	mm

Absolute maximum ratings

Operating current	200	
Input voltage	+17 (on order up to +32V available)	V
CW RF input power	2	W
Operating temperature	-40+85	°C



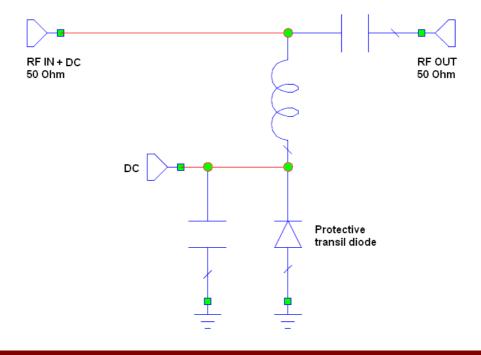
Mounting and installation instructions



BT-10G can be mounted through four 3.5mm diameter holes, using suitable screws (as example M3x30) or other proper tools.

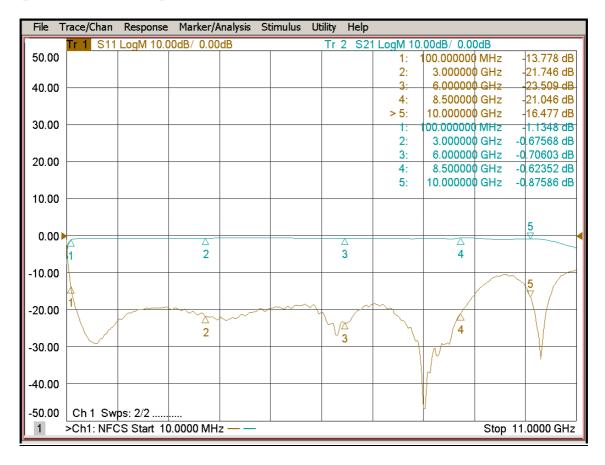
After connecting DC-plug into BT-10G the sum of RF and DC signals must appeared on RF IN+DC. At the same time on RF OUT pure RF signal can be found only. Actually RF signal direction between RF IN+DC and RF OUT is not important. Also direction of current between RF IN+DC and DC is not specified. Therefore BT-10G can be usable in both ways as current injector and current extractor.

Principal circuit diagram of BT-10G





Example of BT-10G responses



S21 = (-1) * insertion loss

S11 = (-1) * return loss