

Broadband Bias Tee

10MHz-50GHz / ± 60 V DC/2.4 mm

Model: TLBT-10M50G-60-2.4S

TLBT-10M50G-60-2.4S is a bias tee that operates from 10 MHz to 50 GHz. The bias tee offers 3.5 dB typical insertion loss and 10 dB typical return loss. The bias tee can handle up to ± 60 VDC bias voltage and 500 mA current. The RF ports are equipped with 2.4 mm female connectors. Other connector types are available under different model numbers.

Features:

- Ultra Wide Band:10MHz-50GHz
- Low Insertion Loss
- High Voltage
- High Current Capacity

Applications:

- Test Lab
- Sub-assemblies
- System Integrations

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range	10MHz-50GHz			
Insertion Loss		3.5		dB
Rreturn Loss		-10		dB
DC Voltage		± 60		V DC
DC Current		500		mA
RF Power		1		W
DC Additional Resistance		250		m Ω
Inductance		1.2		μ H

Mechanical Specifications:

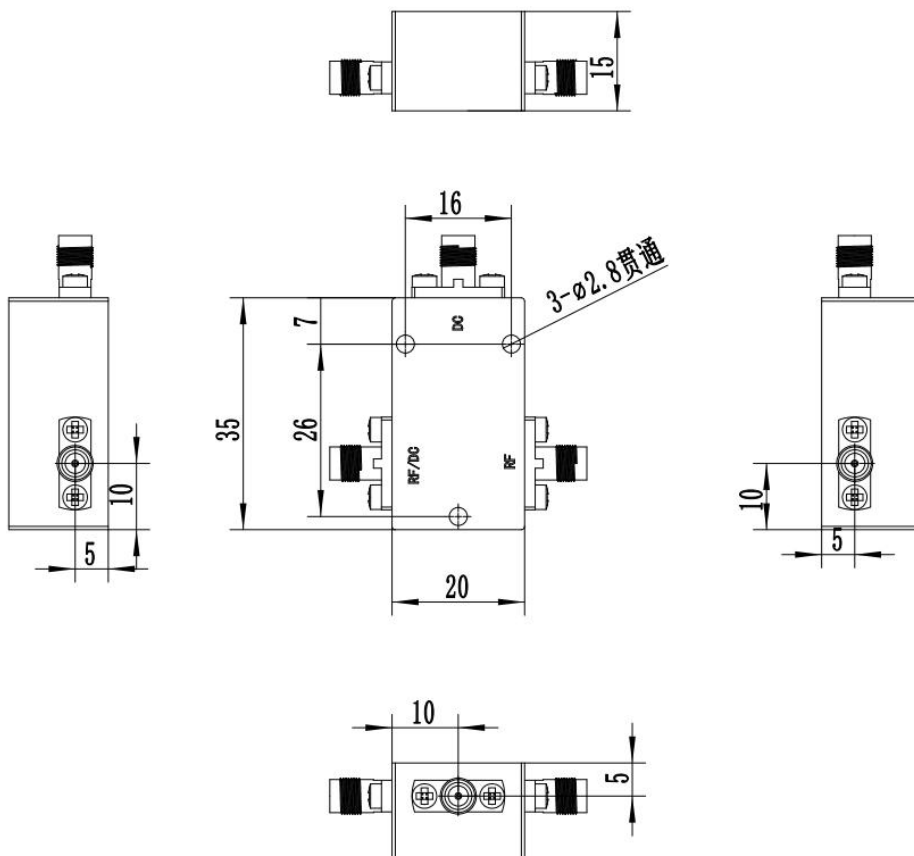
Parameter	Value	Units
Input /Output Connector	2.4mm Female/2.4mm Female	
DC Connector	SMA Female	
Case Material	Aluminum	
Finish	True color conductive oxidation	
Size	20*35*15	mm
Weight	/	g

Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	± 60 V
RF Input Power	+30 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit:mm



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-45		+85	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	10,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

Base Number	Description	Revision
TLBT-10M50G-60-2.4S	Broadband Bias Tee 2.4mm,10MHz-70 GHz,±60V	Rev.1.1

Notes:

1. All data taken @ +23° C unless otherwise specified.
2. Dimensionsandspecificationsmay be changed withoutprior notice.