

Broadband Bias Tee

0.7-14GHz/50V DC/SMA Female

Model: TLBT-0.7G14G-60-SS

TLBT-0.7G14G-60-SS is a bias tee that operates from 0.7 to 14 GHz. The bias tee offers 1.5 dB insertion loss and 1.8:1 typical VSWR. The bias tee can handle up to ± 50 VDC bias voltage and 3000 mA current. The all ports are equipped with SMA female connectors .

Features:

- Frequency range:24-43GHz
- Low Insertion Loss
- High Voltage
- High Current Capacity

Applications:

- Test Lab
- Sub-assemblies
- System Integrations

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range	0.7		14	GHz
Insertion Loss		2	3	dB
VSWR		1.8		:1
Isolation		40		dB
DC Voltage		± 50		V DC
DC Resistance		0.9		Ω
Inductance		1		μ H
DC Current		3000	4000	mA
RF Power			50	W

Mechanical Specifications:

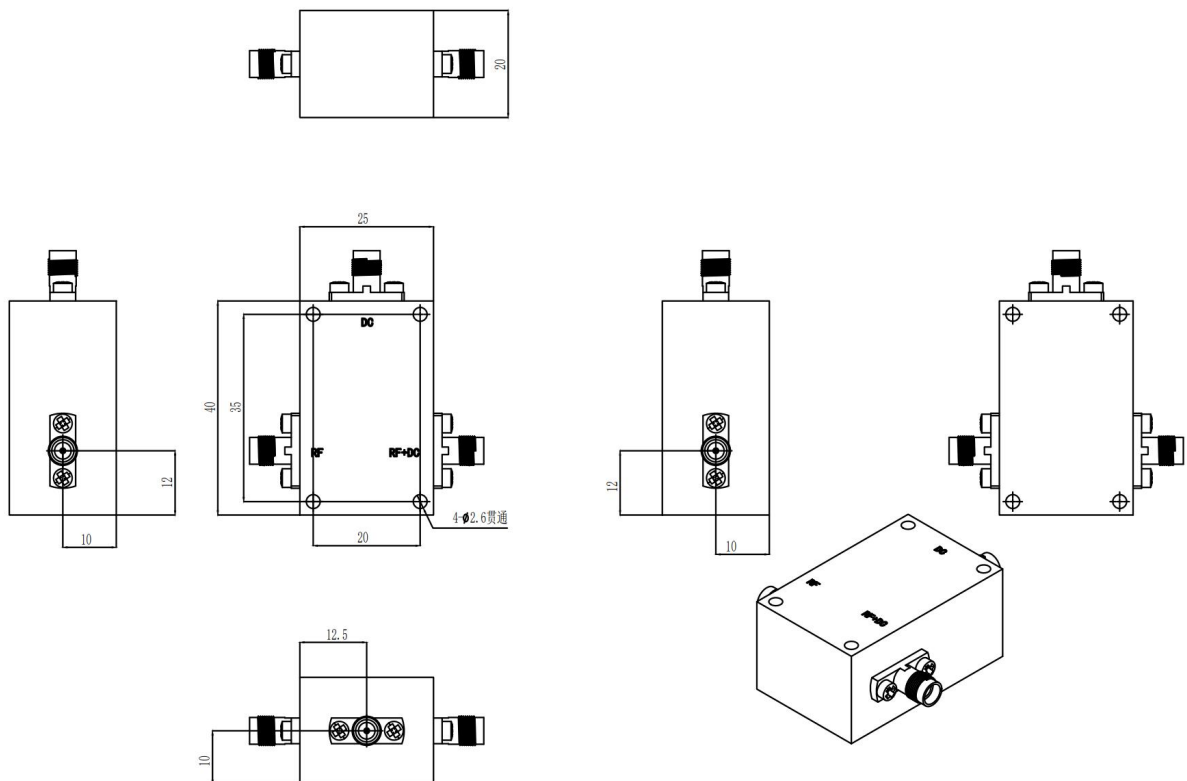
Parameter	Value	Units
RF Connector	SMA Female	
COM Connector	SMA Female	
DC Connector	SMA Female	
Case Material	Aluminum	
Finish	True color conductive oxidation	
Size	25*40*20	mm

Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	± 60 V
RF Input Power	TBD
ESD sensitivity (HBM)	Class 0, passed 150V

Outline Drawing:

Unit:mm; Tolerance: ± 0.1 mm



ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-40		+70	°C
Non-operating Temperature	-55		+85	°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-0.7G14G-60-SS	Broadband Bias Tee SMA, 0.7-14GHz, ±50V	Rev.1.0

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