

## Broadband Bias Tee

10MHz-50GHz /  $\pm 60V$  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  $\pm 60$  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

### 电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency range	10MHz-50GHz			
插损 Insertion Loss		3.5		dB
回波损耗 Return Loss		-10		dB
直流电压 DC Voltage		$\pm 60$		V DC
直流电流 DC Current		500		mA
射频功率 RF Power		1		W
直流附加电阻 DC Additional Resistance		250		m $\Omega$
电感 Inductance		1.2		$\mu$ H

### 机械特性 Mechanical Specifications:

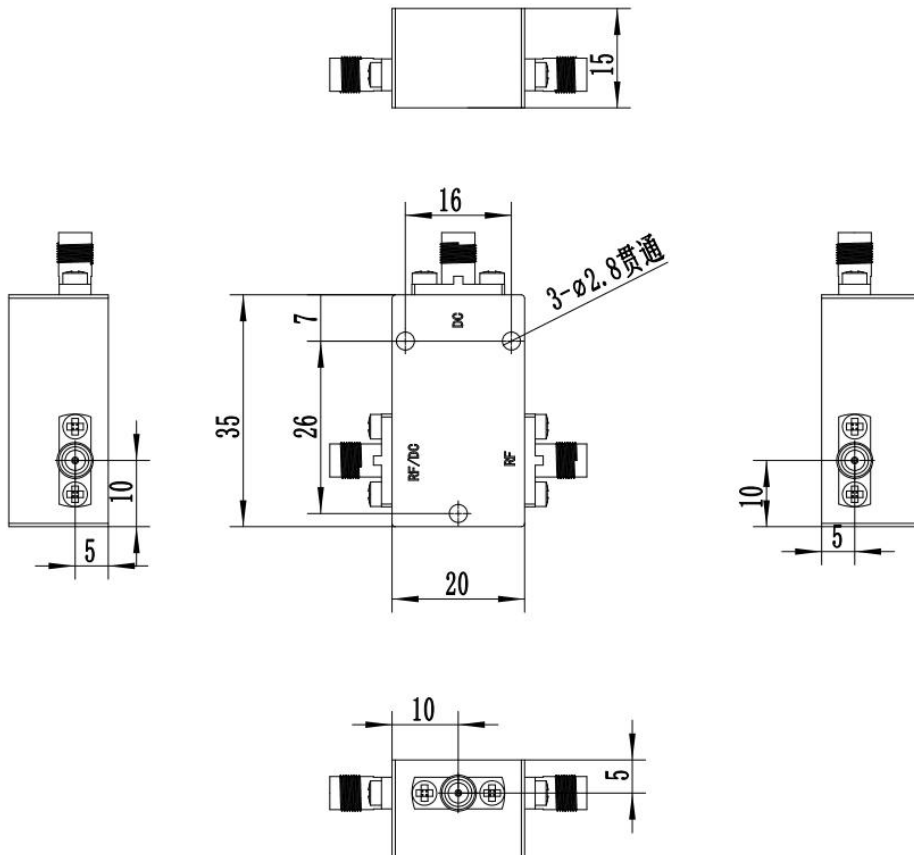
参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	2.4mm Female/2.4mm Female	
直流接口 DC Connector	SMA Female	
壳体材料 Case Material	Aluminum	
表面处理 Finish	True color conductive oxidation	
尺寸 Size	20*35*15	mm
重量 Weight	/	g

### 绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	$\pm 60\text{ V}$
输入功率 RF Input Power	+30 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

### 外形图 Outline Drawing:

Unit:mm



OBSERVE PRECAUTIONS  
ELECTROSTATIC SENSITIVE  
DEVICES

## 温度环境 Environmental Conditions:

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

## 订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 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. Dimensions and specifications may be changed without prior notice.