

## Broadband Bias Tee

### 0.5\*12GHz /100V DC/SMA

### TLBT-0.5G12G-100V-S

TURBT-0.5G12G100VS is a bias tee that operates from 0.5 to 12 GHz. The bias tee offers 1.5 dB typical insertion loss and -12 dB typical return loss. The bias tee can handle up to 100 VDC bias voltage and 3 A current. The RF ports are equipped with SMA female connectors. Other connector types are available under different model numbers.

#### Features:

- Frequency range:0.5-12GHz
- 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	0.5-12			GHz
插损 Insertion Loss		1.5		dB
回波损耗 Return Loss		-12		dB
直流电压 DC Voltage		100	150	V DC
直流电流 DC Current		3	3.5	A
射频功率 RF Power		10		W
直流附加电阻 DC Additional Resistance		250		mΩ
电感 Inductance		1.2		uH

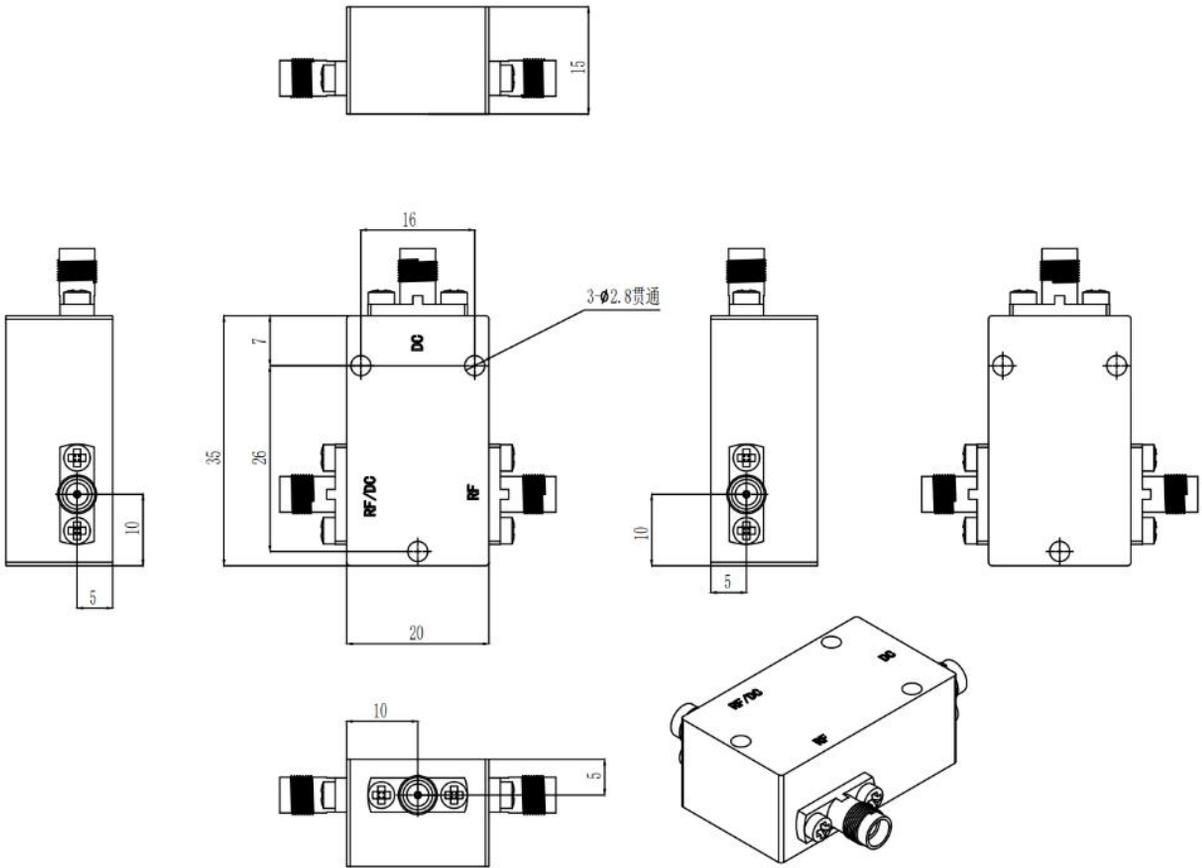
#### 机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	SMA Female/SMA Female	
直流接口 DC Connector	SMA Female	
壳体材料 Case Material	Aluminum	
表面处理		

## 绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+150 V
输入功率 RF Input Power	10 W
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
TURBT-0.5G12G100VS	Broadband Bias Tee SMA,0.5-12 GHz,+100V	Rev.1.1

### Notes:

1. All data taken @ +23° C unless otherwise specified.
2. Dimensions and specifications may be changed without prior notice.