泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
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Broadband Bias Tee

10MHz-50GHz/±60V DC/2.4mm

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 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 2.4mm female connectors and DC port is equipped with SMA female connector.

Features:

- Frequency range: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		±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		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	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

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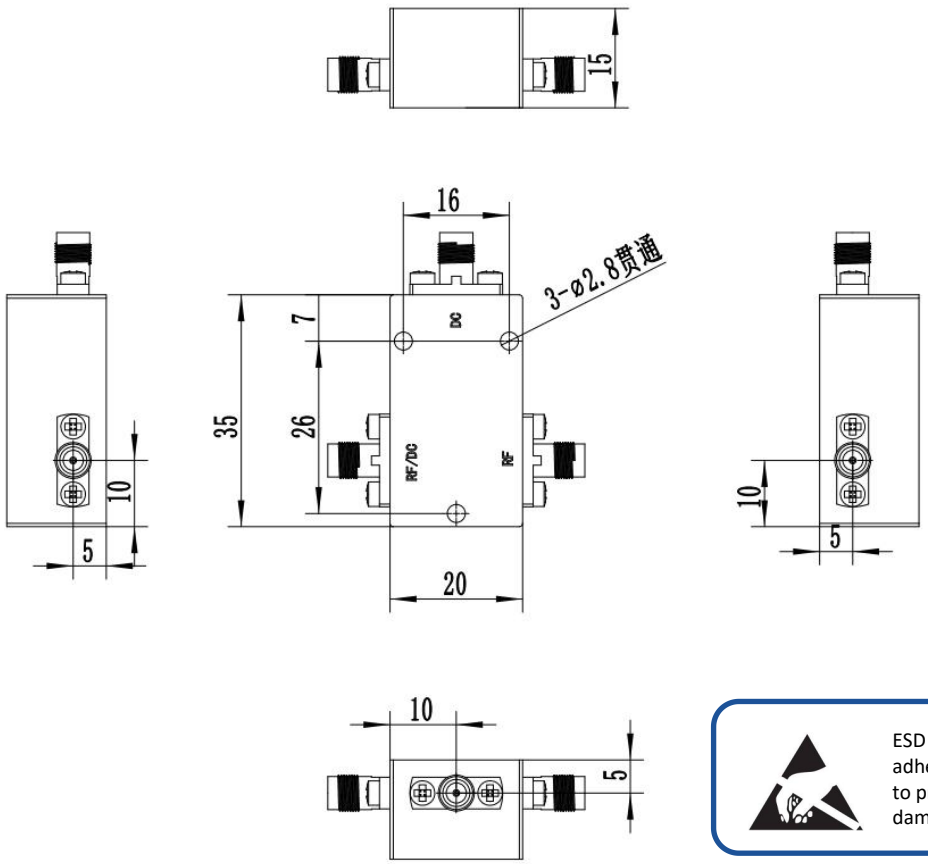
绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	±60 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; Tolerance:±0.1mm



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

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温度环境 Environmental Conditions:

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-40		+70	℃
存储温度 Non-operating Temperature	-55		+85	℃
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-50GHz,±60V	Rev.1.1

Notes:

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