泰莱微波 Talent Microwave

Suzhou Talent Microwave,Inc
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Broadband Bias Tee

0.5-12GHz/100V DC/SMA

Model: TLBT-0.5G12G-100V-S

TLBT-0.5G12G-100-S is a bias tee that operates from 0.5 to 12 GHz. The bias tee offers 1.5 dB insertion loss and -12 dB typical return loss. The bias tee can handle up to +100 VDC bias voltage and 3 A current. The all ports are equipped with SMA female connectors.

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
RF接口 RF Connector	SMA Female	
COM接口 COM Connector	SMA Female	
DC接口 DC Connector	SMA Female	
壳体材料 Case Material	Aluminum	
表面处理 Finish	Ture color conductive oxidation	
尺寸 Size	20*35*15	mm

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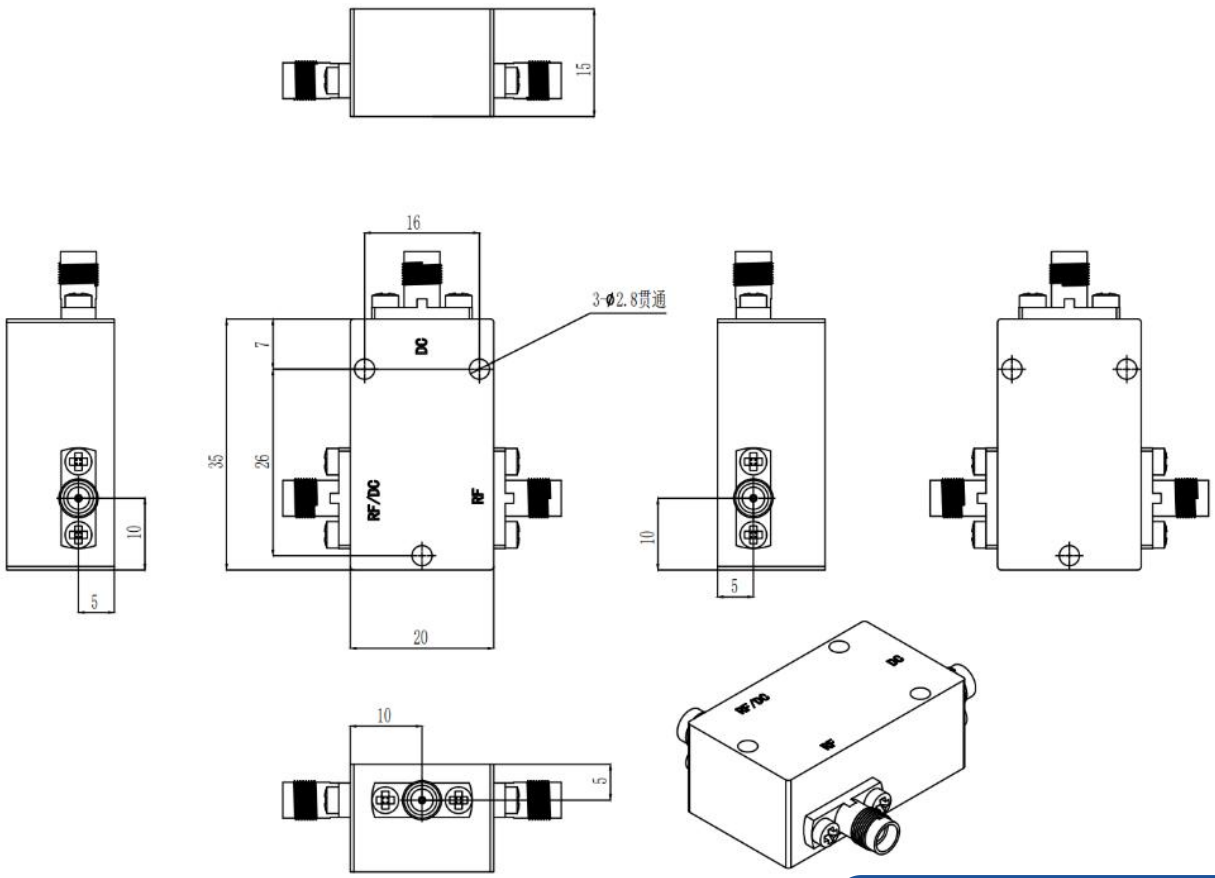
绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+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; 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-0.5G12G-100V-S	Broadband Bias Tee SMA,0.5 GHz-12 GHz,+100V	Rev.1.1

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