泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

Broadband Bias Tee

0.5*12GHz /100V DC/SMA

Model: TLBT-0.5G12G-100V-S

TLBT-0.5G12G-100V-S 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:

- Ultra Wide Band: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 Ruturn Loss		-12		dB
直流电压 DC Voltage		100	150	V DC
直流电流 DC Current		3	3.5	mA
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 Finish	True color conductive oxidation	
尺寸 Size	20*35*15	mm
重量 Weight	/	g

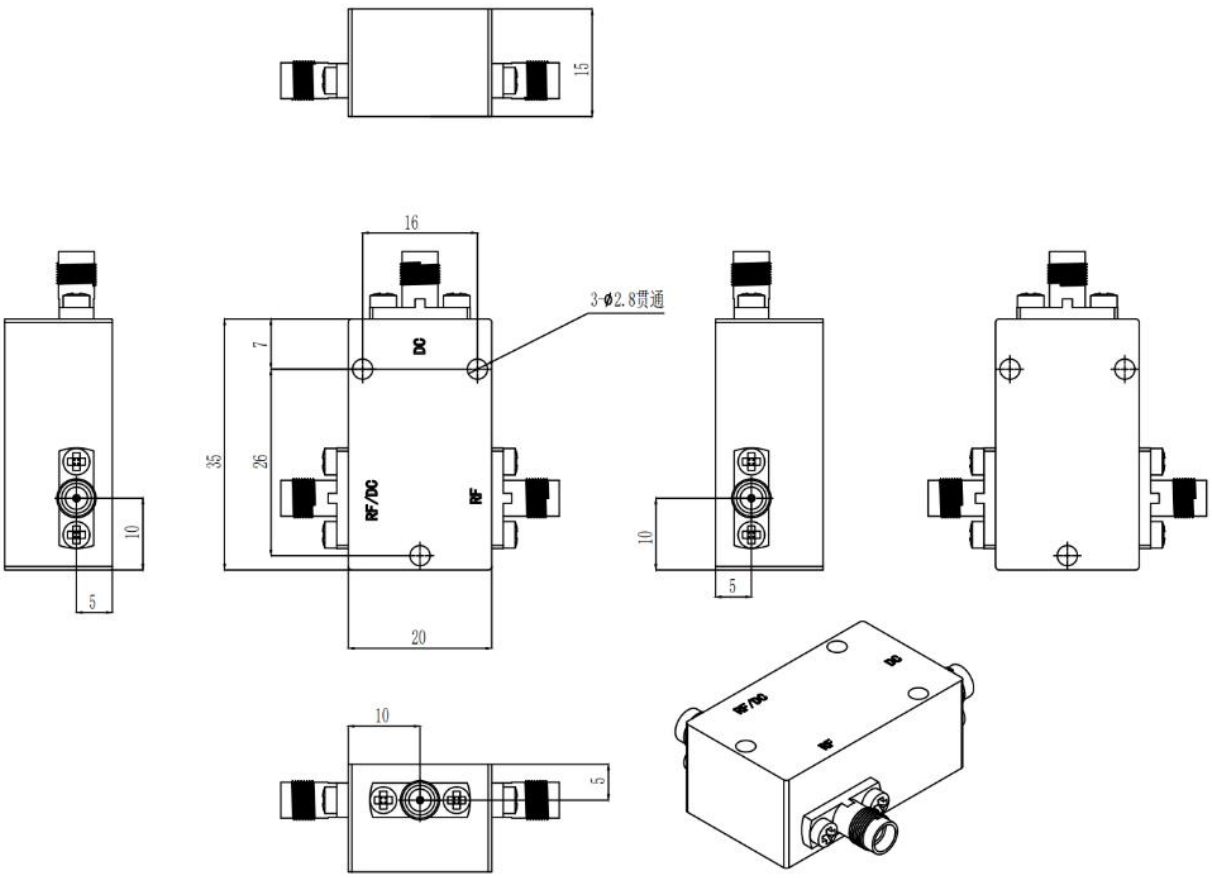
Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

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

Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

温度环境 Environmental Conditions:

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-45		+85	℃
存储温度 Non-operating Temperature	-55		+125	℃
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 Desciption	版本号 Revision
TLBT-0.5G12G-100V-S	Broadband Bias Tee SMA,0.5-12 GHz,+100V	Rev.1.1

Notes:

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