

Broadband Bias Tee

30KHz-27GHz/50V DC/2.92 mm

Model: TLBT-30K27G-50-KS

TLBT-30K27G-50-KS is a bias tee that operates from 30 KHz to 27 GHz. The bias tee offers 2.2 dB insertion loss and -12 dB typical return loss. The bias tee can handle up to +50 VDC bias voltage and 500 mA current. The all ports are equipped with 2.92mm female connectors.

Features:

- Ultra Wide Band:30KHz-27GHz
- 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	30KHz-27GHz			
插损 Insertion Loss			2.2	dB
回波损耗 Return Loss		-12	-10	dB
隔离 Isolation	40			dB
直流电压 DC Voltage			50	V DC
直流电流 DC Current			500	mA
射频功率 RF Power			1	W

机械特性 Mechanical Specifications:

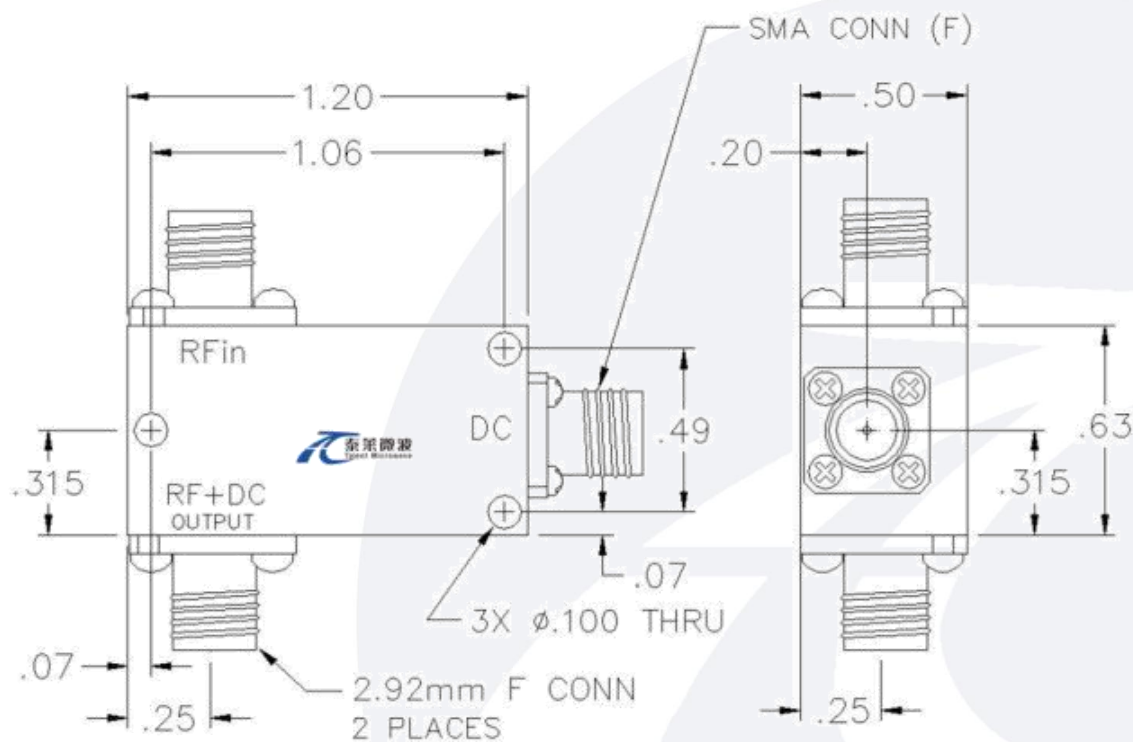
参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	2.92mm Female/2.92mm Female	
直流接口 DC Connector	SMA Female	
壳体材料 Case Material	Aluminum	
表面处理 Finish	Bue Paint	
尺寸 Size	1.2*0.5*0.63	Inch
重量 Weight	45	g

绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+50 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:Inch



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

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:

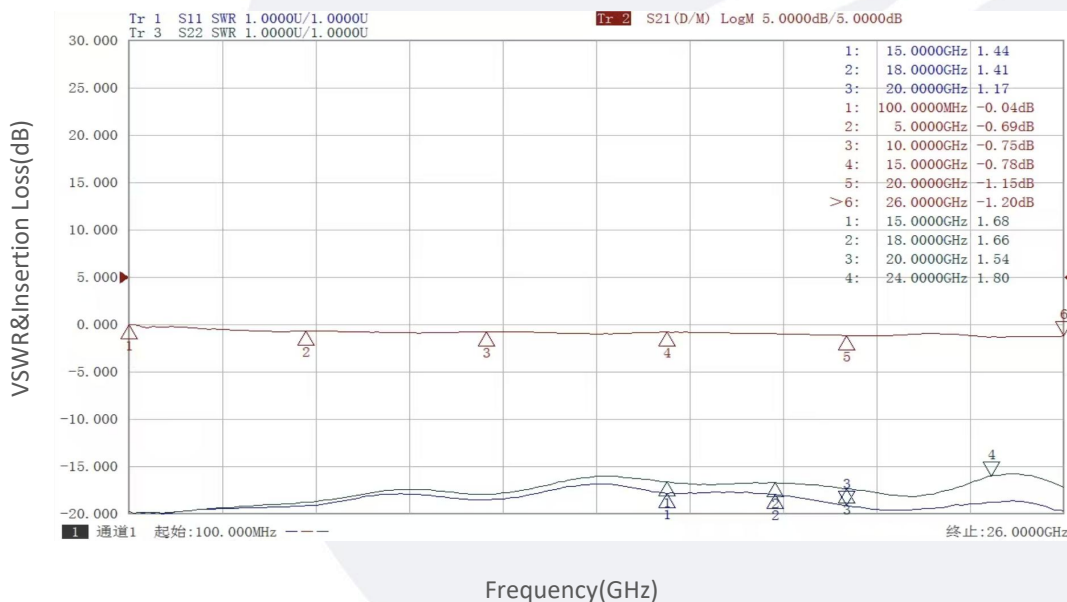
标准型号 Base Number	描述 Description	版本号 Revision
TLBT-30K27G-50-KS	Broadband Bias Tee 2.92mm Female,30KHz-27 GHz,+50V	Rev.1.1

Notes:

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

典型曲线 Typical Performance Data:

VSWR&Insertion Loss vs Frequency



Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.