

## Model: TLLA5G11G-19-30

## Low noise amplifier 5-11 GHz, NF:2.5dB Typ, Gain:19dB Typ

### Feature:

- Ultra Wide Band:5-11 GHz
- Gain: 19 dB Typ
- Noise Figure: 2.5 dB Typ
- Unconditional stability
- 50 Ohm Matched Input / Output

### 电气特性 Electrical:

参数Parameter	Min.	Typ.	Max.	单位Units
频率范围 Frequency range		5-11		GHz
增益 Gain		19		dB
增益平坦度 Gain Flatness		±1.5		dB
噪声系数 Noise Figure		2.5		dB
输出功率1dB压缩点 Output P1dB		16		dBm
输入驻波 Input VSWR		1.7		: 1
输出驻波 Output VSWR		1.5		: 1
直流电压 DC Voltage		+8	+12	V DC
直流供电 DC power supply		80		mA
阻抗 Impedance		50		Ohms

### 机械特性 Mechanical :

参数Parameter	指标 Value
输入接口 Input Connector	SMA Female
输出接口 Output Connecto	SMA Female
供电引脚 Power Supply Pin	Solder Pin
尺寸 Size	20×30×8 mm

### 绝对最大值 Absolute Maximum Ratings:

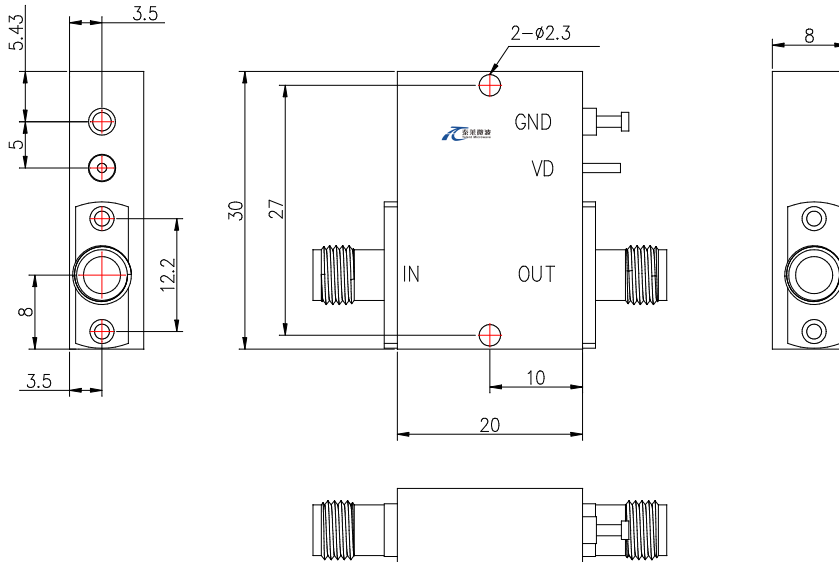
参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	12 V
输入功率 RF INPUT POWER	TBD
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System  
Benchtop Amplifier

外形尺寸 Outline Drawing:

Unit: mm(Inches)



OBSERVE PRECAUTIONS  
ELECTROSTATIC SENSITIVE  
DEVICES

温度环境 Environmental Conditions:

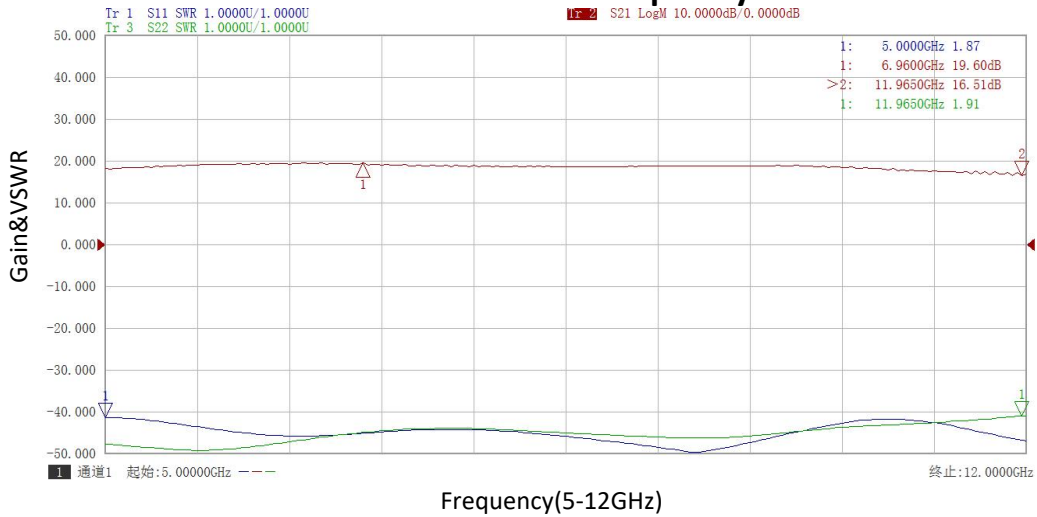
参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	-40		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	10000		30000	feet
震动 Shock / Vibration(MIL-STD-810F)		Airborne		
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

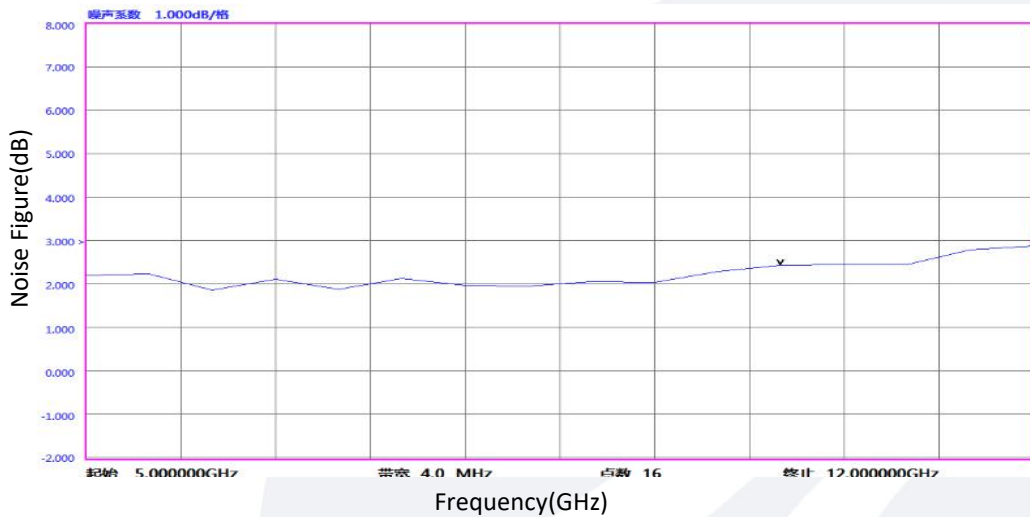
标准型号 Part Number	描述 Description	版本号Revision
TLLA5G11G-19-30	Low noise amplifier 5-11 GHz, NF:2.5dB Typ, Gain:19dB Typ	Rev.1.1

典型曲线 Typical Performance Data:

**Gain&VSWR vs Frequency**



**Noise Figure vs Frequency**



**Output P1dB vs Frequency**

