

Model:TLLA50K20G-30-30
Low Noise Amplifier
**50KHz-20GHz, NF:3.0 dB, Gain:30 dB,
 P1dB:15dBm**
Feature:

- Ultra Wide Band: 50KHz-20GHz
- Gain: 30dB Typ
- Noise Figure: 3.0dB Typ
- Good Power and Gain Flatness
- 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	50KHz-20GHz			
增益 Gain		30		dB
增益平坦度 Gain Flatness		3.0		dB
噪声系数 Noise Figure		3.0	5.0	dB
线性输出功率P1dB		15		dBm
输出电压Output voltage		4.4		Vpp
输入驻波 Input VSWR		2.0		:1
输出驻波 Output VSWR		2.0	2.2	:1
直流电压 DC Voltage		+12		V DC
直流电流 DC Supply Current		150		mA
阻抗 Impedance	50			Ohms

机械特性 Mechanical :

参数Parameter	指标 Value	单位Units
输入输出接口Input /Output Connector	SMA Female	
直流偏置 Bias	Solder Pin	
尺寸 Size	44.8*29.2*11	mm
重量 Weight	55	g

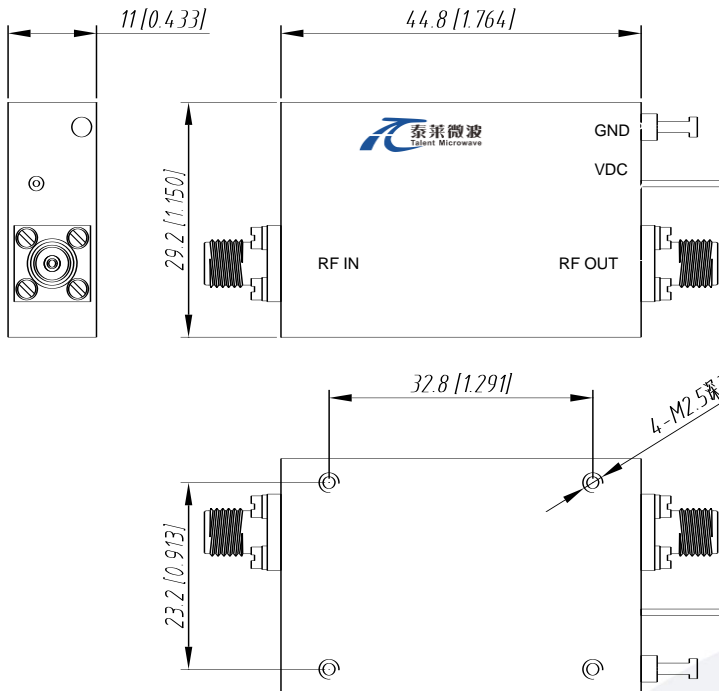

 Available 220V System
 Benchtop Amplifier

绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+12.5V
输入功率 RF INPUT POWER	+10dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形尺寸 Outline Drawing:

Unit: mm/Inches



*****Heat Sink Required During Operation**

温度环境 Environmental Conditions:

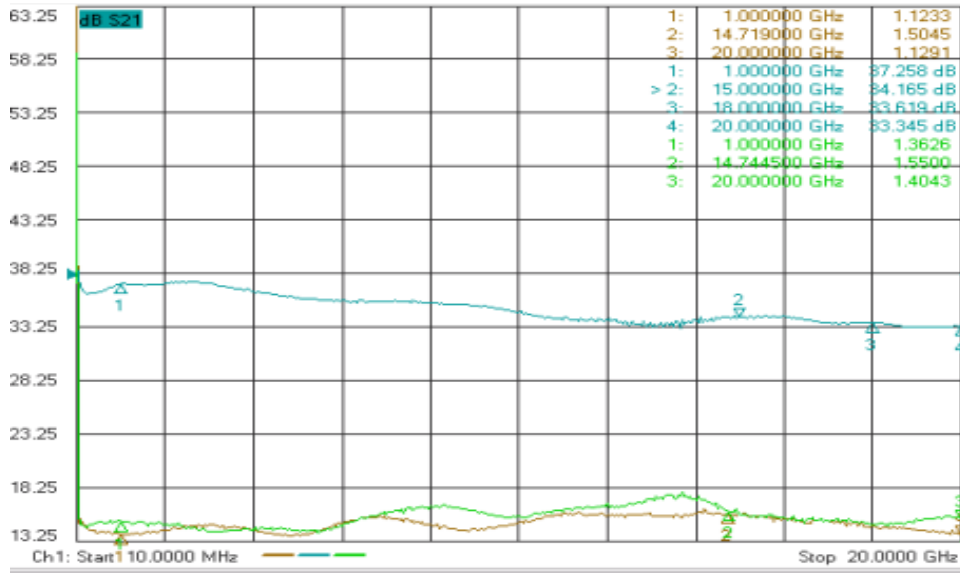
参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	-40		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

标准型号 Part Number	描述 Description	版本号Revision
TLLA50K20G-30-30	Low Noise Amplifier, 50KHz-20GHz, Noise Figure:3.0 dB, Gain:30 dB,P1dB:15dBm,12V DC,Without Heatsink	Rev.1.1
TLLA50K20G-30-30-HS	Low Noise Amplifier, 50KHz-20GHz, Noise Figure:3.0 dB, Gain:30 dB,P1dB:15dBm,12V DC,With Heatsink	Rev.1.1

典型曲线 Typical Performance Data:

Gain&VSWR VS. Frequency



Noise Figure

