

**Model: TLLA10M3G-44-20**

**Low Noise Amplifier**

**0.01-3G, NF: 2.5dB, Gain: 44dB, P1dB: 20dBm**

**Feature:**

- Ultra Wide Band: 0.01-3 GHz
- Gain: 44 dB Typ
- Noise Figure: 2.5dB
- 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	0.01-3			GHz
增益 Gain	42	44	46	dB
增益平坦度 Gain Flatness		±2.0		
噪声系数 Noise Figure	1.5	2.0	2.5	dB
线性输出功率 Output P1dB		+20		dBm
输入驻波 Input VSWR		2.2		: 1
输出驻波 Output VSWR		2.2		: 1
直流电压 DC Voltage		+12		V DC
直流供电 DC power supply		230		mA
阻抗 Impedance	50			Ohms

**机械特性 Mechanical :**

参数Parameter	指标 Value
输入输出接口 Input /Output Connector	SMA Female
供电引脚 Power Supply Pin	Solder Pin
尺寸 Size	44.8*29.2*11 mm
重量 Weight	50 g

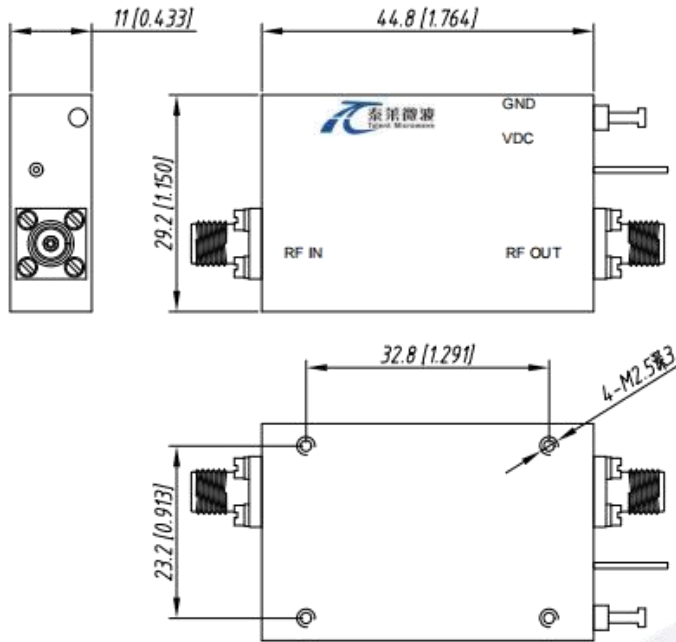


**绝对最大值 Absolute Maximum Ratings:**

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+12V
输入功率 RF INPUT POWER	15 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

**外形尺寸 Outline Drawing:**

Unit: mm(Inches)



**温度环境 Environmental Conditions:**

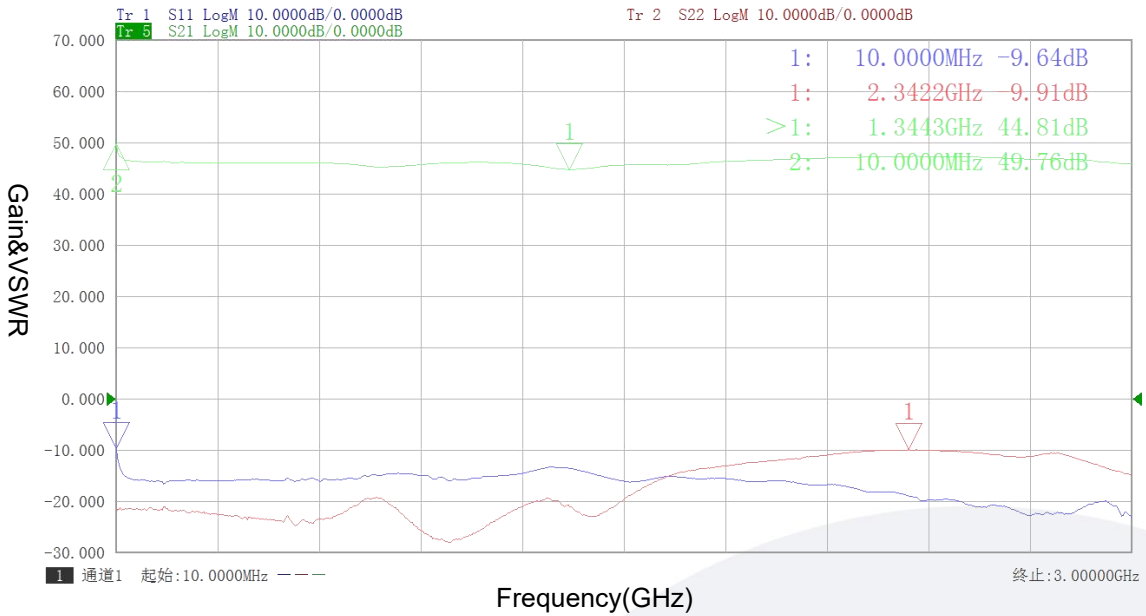
参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	-25		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc 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
TLLA-10M3G-44-20	Low Noise Amplifier,0.01-3G,NF:2.5dB,Gain: 44dB,P1dB:20dBm,5V DC,Without Heatsink	Rev.1.1
TLLA-10M3G-44-20-HS	Low Noise Amplifier,0.01-3G,NF:2.5dB,Gain: 44dB,P1dB:20dBm,5V DC,Without Heatsink	

典型曲线 Typical Performance Data:

Gain&VSWR VS Frequency



Noise Figure VS Frequency

