

**Model: TLLA10G50G-30-50**
**Low Noise Amplifier  
 10-50GHz, NF:5.0 dB, P1dB:13dBm,**
**Feature :**

- Broadband Performance
- Gain:36 dB
- Noise Figure: 5 dB Typical
- 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	10-50			GHz
增益 Gain	28	30		dB
增益平坦度 Gain Flatness		±3		dB
噪声系数 Noise Figure		5.0	8.0	dB
线性输出功率P1dB		13		dBm
输出三阶交调Output IP3		25		dBm
输入驻波 Input VSWR		2.0		:1
输出驻波 Output VSWR		2.0		:1
直流电压 DC Voltage		+12	+13	V DC
直流电流 DC Supply Current		300		mA
阻抗 Impedance	50			Ohms

**机械特性 Mechanical :**

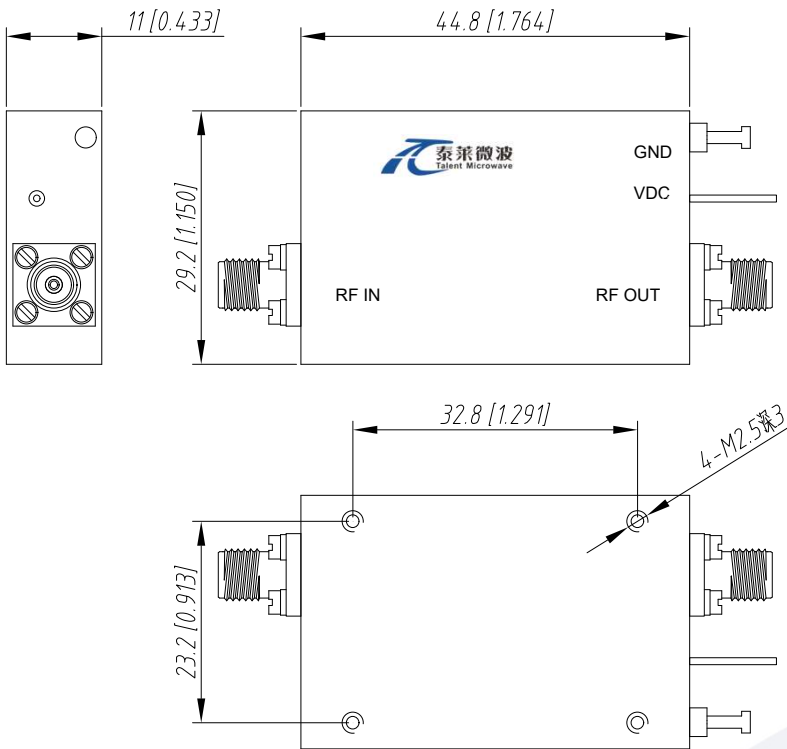
参数Parameter	指标 Value	单位Units
输入输出接口Input /Output Connector	2.4mm Female	
直流偏置 Bias	Solder Pin	
尺寸 Size	44.8*29.2*11	mm
重量 Weight	/	g


**绝对最大值 Absolute Maximum Ratings:**

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+13 V
输入功率 RF INPUT POWER	10 dBm
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
TLLA10G50G-36-50	Low Noise Amplifier, 10-50 GHz, Noise Figure:5.0 dB, Gain:36 dB,P1dB:13dBm,12V DC,Without Heatsink	Rev.1.1
TLLA10G50G-36-50-HS	Low Noise Amplifier, 10-50 GHz, Noise Figure:5.0 dB, Gain:36 dB,P1dB:13dBm,12V DC With Heatsink	Rev.1.1