

**Model: TLPA1G18G-30-30**
**Power Amplifier**
**1-18GHz, Gain: 30dB, P1dB: 30dBm, DC: 18V**
**Feature:**

- Ultra Wide Band: 1-18 GHz
- Gain: 30dB Min
- P1dB Output Power: 30 dBm Min
- 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	1-18			GHz
增益 Gain	30			dB
增益平坦度 Gain Flatness		±2.0	±2.5	dB
噪声系数 Noise Figure			5.0	dB
线性输出功率 Output P1dB	30			dBm
饱和输出功率 Output Psat		31		dBm
杂散 Spurious		-60		dBc
输入驻波 Input VSWR		2.0	2.2	:1
输出驻波 Output VSWR		2.0	2.2	:1
直流电压 DC Voltage		18		V DC
直流电流 DC Supply Current	1			A
阻抗 Impedance	50			Ohms

**机械特性 Mechanical :**

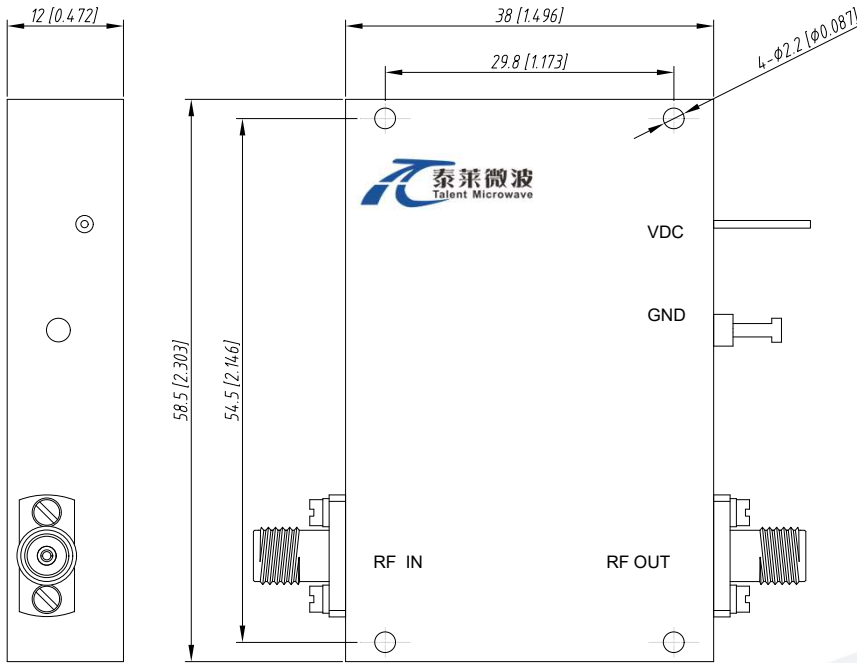
参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	SMA Female	
直流偏置 Bias	Solder Pin	
尺寸 Size	58.5*38*12	mm
重量 Weight	50	g


**绝对最大值 Absolute Maximum Ratings:**

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	
输入功率 RF Input Power	5 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**



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	-45		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	30,000			feet
震动 Shock / Vibration(MIL-STD-810F)	20g,11ms,saw-tooth			
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
TLPA1G18G-30-30	Power amplifier 1-18GHz,Gain:30dB,P1dB:30dBm,18V DC,Without Heatsink	Rev.1.2
TLPA1G18G-30-30-HS	Power amplifie 1-18GHz,Gain:30dB, P1dB:30dBm, 18V DC,With Heatsink	Rev.1.2