

Model: TLPA0.3G5G-25-32
Power Amplifier
0.3-5GHz, Gain: 25dB, P1dB: 30dBm
Feature:

- Ultra Wide Band: 0.3-5GHz
- Gain: 25dB Min
- Psat Output Power: 32 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	0.3-5			GHz
增益 Gain	25			dB
增益平坦度 Gain Flatness		±2.0		dB
线性输出功率 Output P1dB		30		dBm
饱和输出功率 Output Psat	32			dBm
输入驻波 Input VSWR		1.8		:1
输出驻波 Output VSWR		1.8		:1
直流电压 DC Voltage	9	12	15	V DC
直流电流 DC Current		0.7	0.9	A
阻抗 Impedance	50			Ohms

机械特性 Mechanical:

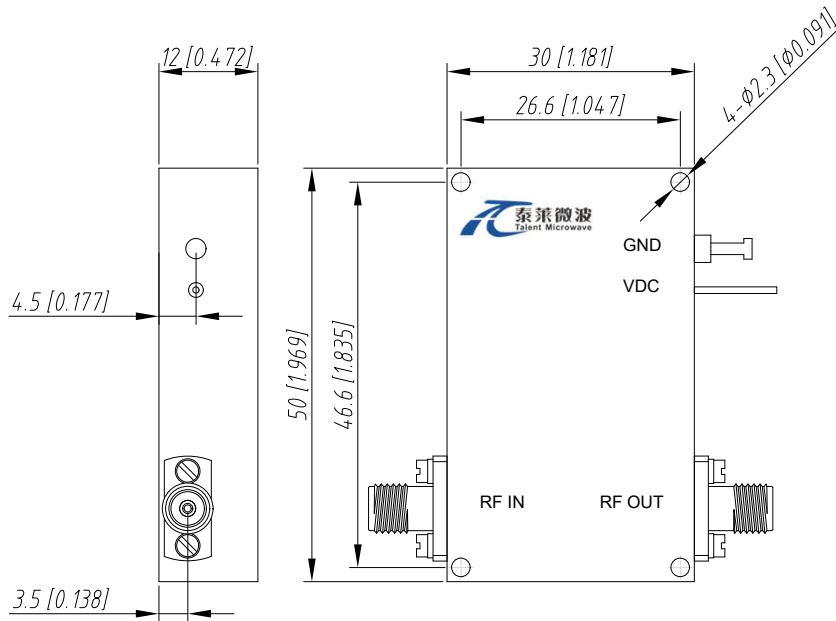
参数Parameter	指标 Value	单位 Units
输入输出接口 Input / Output Connector	SMA Female	
直流偏置 Bias	Solder Pin	
尺寸 Size	30*50*12	mm
重量 Weight	/	g


绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+15V
输入功率 RF INPUT POWER	14 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	100%RH at 35°C, 95%RH at 40°C			
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
TLPA0.3G5G-25-32	Power amplifier 0.3-5GHz, Gain:25dB, P1dB:30dBm, 9~15V DC, Without Heatsink	Rev.1.0
TLPA0.3G5G-25-32-HS	Power amplifier 0.3-5GHz, Gain:25dB, P1dB:30dBm, 9~15V DC, With Heatsink	Rev.1.0

典型曲线 Typical Performance Data:

Gain&VSWR VS. Frequency

