

Model: TLPA1G4G-15-27
Power Amplifier
1-4GHz, Gain: 20dB, P1dB: 26dBm
Feature:

- Ultra Wide Band: 1-4GHz
- Gain: 15dB Min
- Psat Output Power: 27 dBm 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	1-4			GHz
小信号增益 Small signal Gain	15	20		dB
增益平坦度 Gain Flatness		±1.0	±1.5	dB
线性输出功率P1dB	25	26		dBm
饱和输出功率 Psat		27		dBm
最大输入功率Input Max Power			15	dBm
谐波抑制 Harmonic Rejection		1.5	2.0	:1
杂散 Spurious		15		dBc
直流电压 DC Voltage		+28		V DC
直流电流 DC Supply Current	0.25			A
阻抗 Impedance	50			Ohms

机械特性 Mechanical :

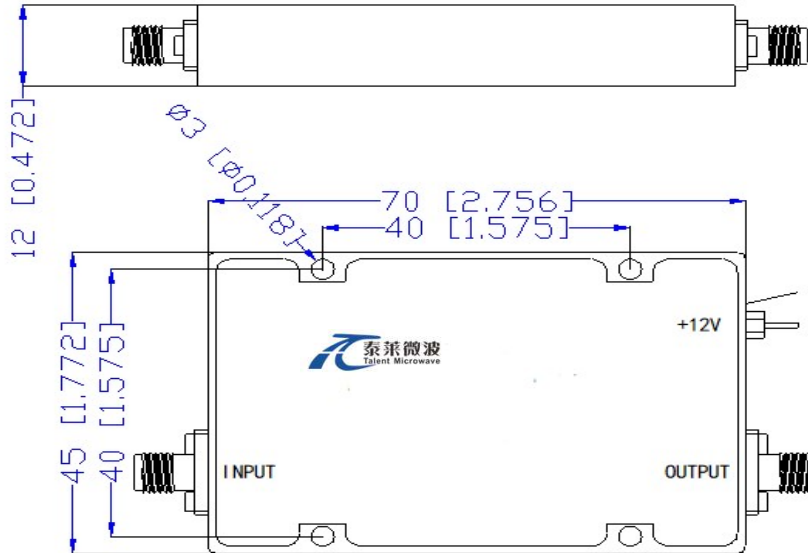
参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	SMAMm Female	
直流偏置 Bias	Solder Pin	
尺寸 Size	70*45*12	mm
重量 Weight	/	g


绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	
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)



*****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	-40		+75	°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
TLPA1G4G-15-27	Power amplifier 1-4GHz, Gain:20dB, P1dB:26dBm, 28V DC, Without Heatsink	Rev.1.0
TLPA1G4G-15-27-HS	Power amplifier 1-4GHz, Gain:20dB, P1dB:26dBm, 28V DC, With Heatsink	Rev.1.0