

**Model:TLPA1.5G2.5G-43-37**
**Power Amplifier**
**1.5-2.5GHz,Gain:43dB,P1dB:36dBm**
**Feature:**

- Frequency range: 1.5-2.5GHz
- Gain: 43dB Typ
- Output Power Past: 37dBm 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	1.5-2.5			MHz
增益 Gain	40	43		dB
增益平坦度 Gain Flatness		±1.5	±2.0	dB
线性输出功率P1dB	35	36		dBm
饱和输出功率Psat	37			dBm
杂散Spurious		60		dBc
最大输入功率 Input Max Power			8	dBm
输入驻波 Input VSWR		1.5	2.0	:1
直流电压 DC Voltage	28			V DC
直流电流 DC Supply Current		2		A
阻抗 Impedance	50			Ohms

**机械特性 Mechanical :**

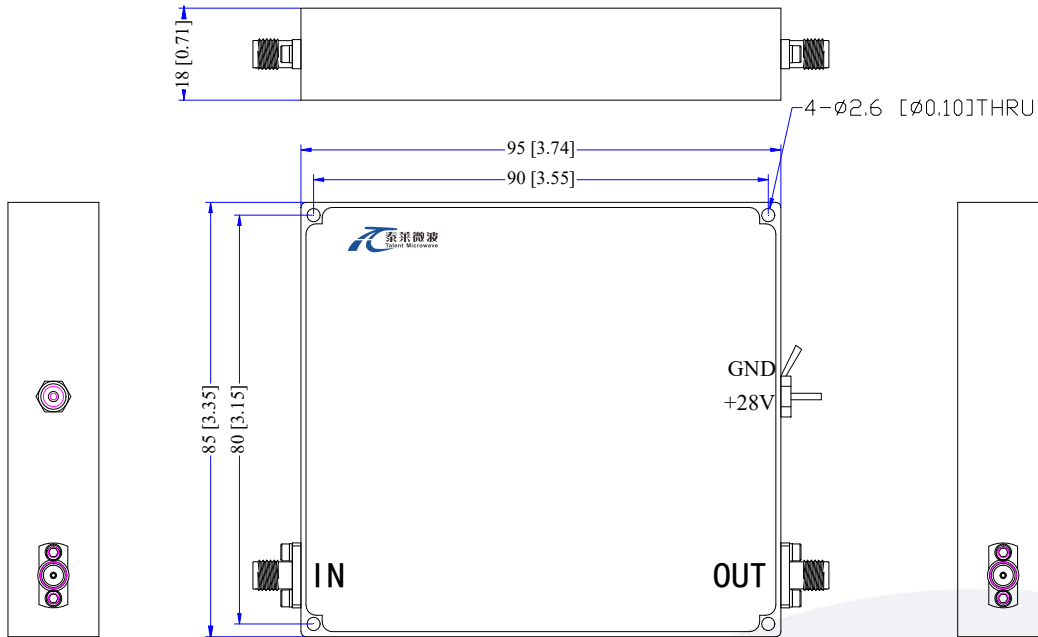
参数Parameter	指标 Value	单位 Units
输入输出接口 Input /Output Connector	SMA Female	
直流偏置 Bias	Solder Pin	
尺寸 Size	/	mm
重量 Weight	/	g


**绝对最大值 Absolute Maximum Ratings:**

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	25
输入功率 RF INPUT POWER	8dBm
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:

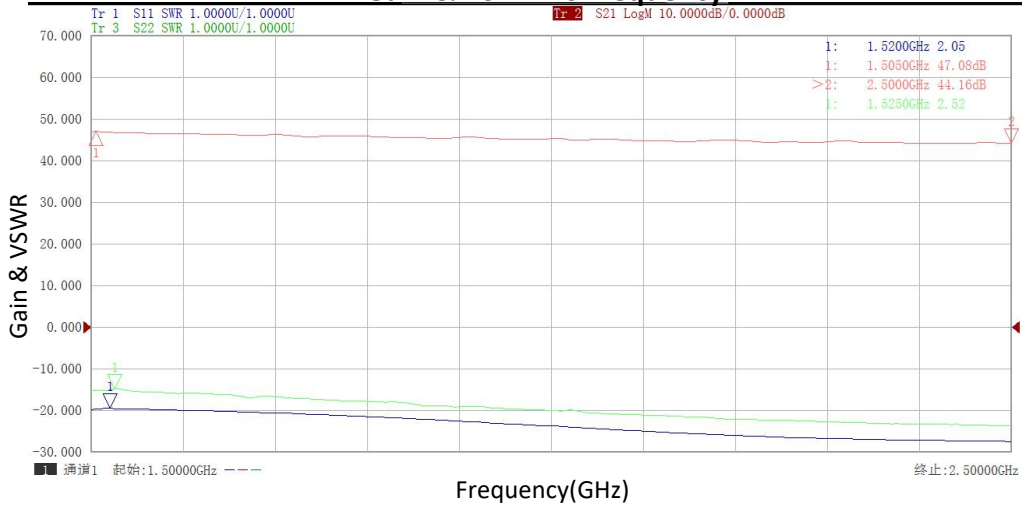
参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	-30		+55	°C
存储温度 Non-operating Temperature	-45		+85	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	30,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

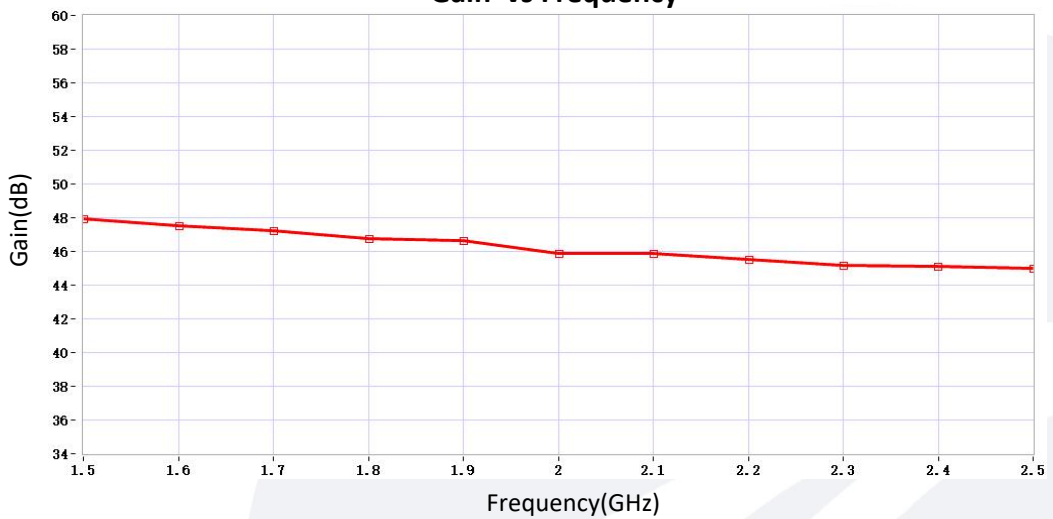
标准型号 Part Number	描述 Description	版本号Revision
TLPA1.5G2.5G-43-37	Power amplifier 1.5-2.5GHz,Gain:43dB,P1dB:36dBm, 28V DC,Without Heatsink	Rev.1.0
TLPA1.5G2.5G-43-37-HS	Power amplifier 1.5-2.5GHz,Gain:43dB,Psat:36dBm, 28V DC,With Heatsink	Rev.1.0

典型曲线 Typical Performance Data:

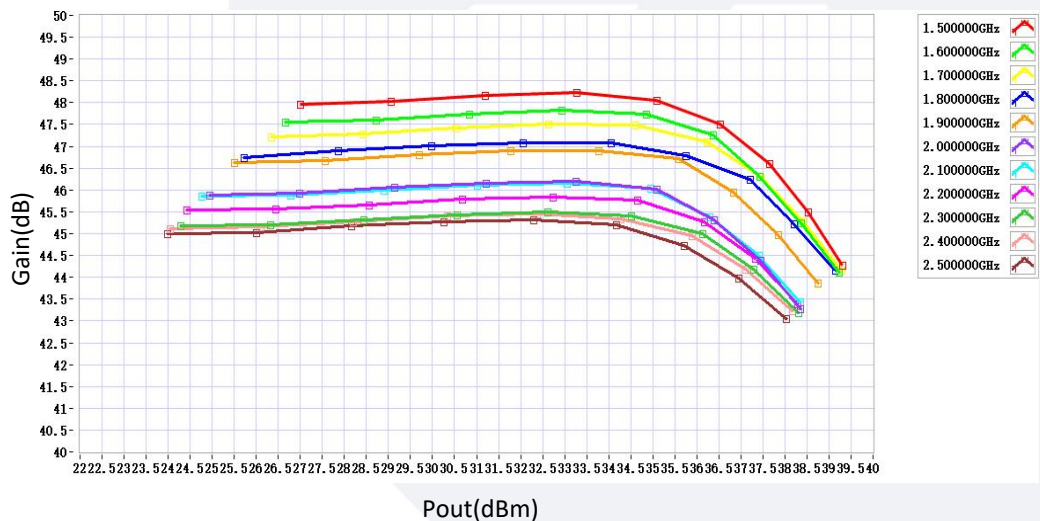
**Gain & VSWR vs Frequency**



**Gain vs Frequency**



**Gain vs Output Power**



典型曲线 Typical Performance Data:

P1dB vs Frequency

