

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

- Ultra Wide Band:1.5-2.5GHz
- Gain:43dB Typ
- Psat Output Power:37dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

电气特性 Electrical Specifications:

参数Parameter	Min	Typ	Max	单位Units
频率范围 Frequency range	1.5-2.5			GHz
增益 Gain	40	43		dB
增益平坦度 Gain Flatness		±1.5	±2	dB
线性输出功率 Output P1dB	35	36		dBm
饱和输出功率 Output Psat	37			dBm
杂散 Spurious@Psat		-60		dBc
输入驻波 Input VSWR		1.5	2	: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 Specifications:

参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	SMA Female/SMA Female	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	95*85*18	mm
重量 Weight	/	g

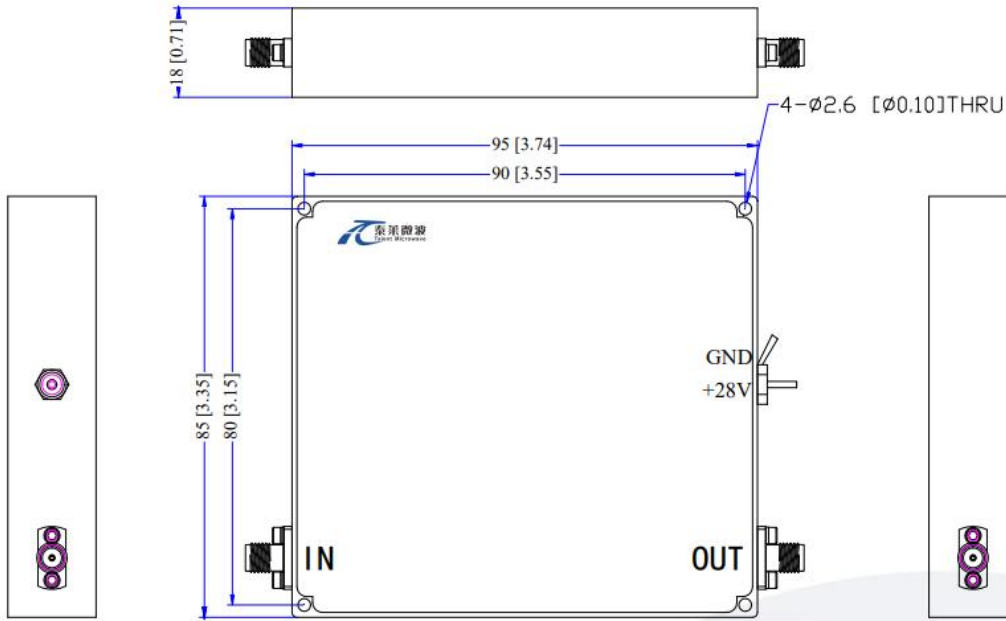
绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+28V
输入功率 RF Input Power	8dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V


**Available 220V System
Benchtop Amplifier**

外形尺寸 Outline Drawing:

Unit: mm



*****Heat Sink Required During Operation**



温度环境 Environmental Conditions:

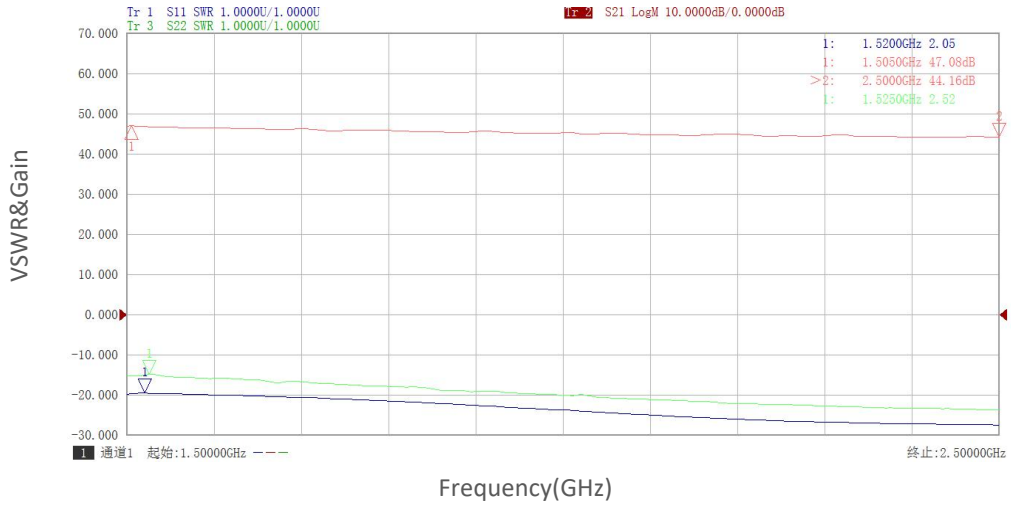
参数Parameter	Min	Typ	Max	单位Units
操作温度 Operating Temperature	-30		+55	°C
存储温度 Non-operating Temperature	-45		+85	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	30000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

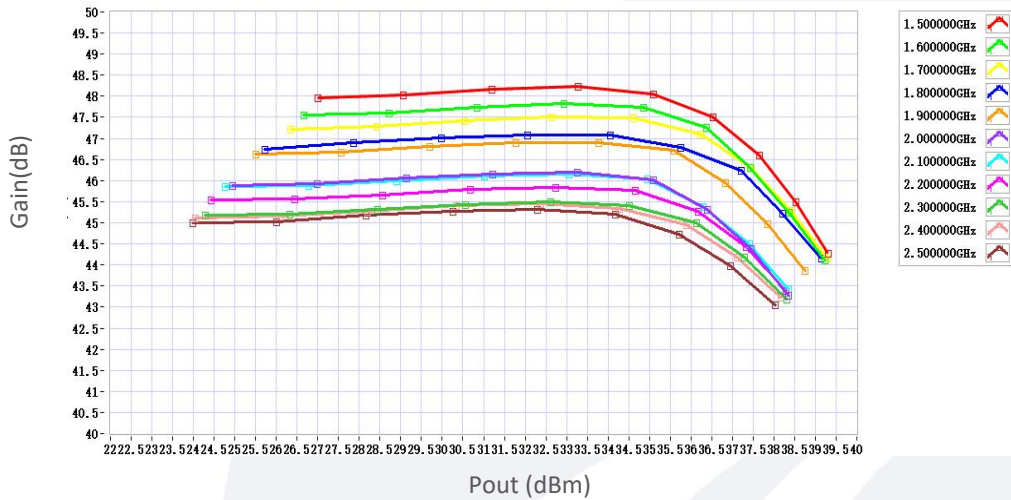
标准型号 Part Number	描述 Description	版本号Revision
TLPA1.5G2.5G-43-37	Power amplifier 1.5-2.5GHz,Gain:43dB,Psat:37dBm,+28V DC,Without Heatsink.	Rev.1.1
TLPA1.5G2.5G-43-37-HS	Power amplifier 1.5-2.5GHz,Gain:43dB,Psat:37dBm,+28V DC,With Heatsink.	Rev.1.1

典型曲线 Typical Performance Data:

VSWR&Gain vs Frequency



Gain vs Output Power



P1dB vs Frequency

