

Model:TLPA2G6G-45-47
Power Amplifier
2-6GHz,Gain:45dB,Psat:47dBm
Feature:

- Ultra Wide Band: 2-6GHz
- Gain:45dB Typ
- Psat Output Power:47dBm Typ
- 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	2-6			GHz
增益 Gain	43	45		dB
增益平坦度 Gain Flatness		±2.5	±3.5	dB
线性输出功率 Output P1dB		45		dBm
饱和输出功率 Output Psat		47		dBm
谐波 Harmonics		-15	-13	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			8.5	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	177.8*82.5*50.8	mm
重量 Weight	/	g

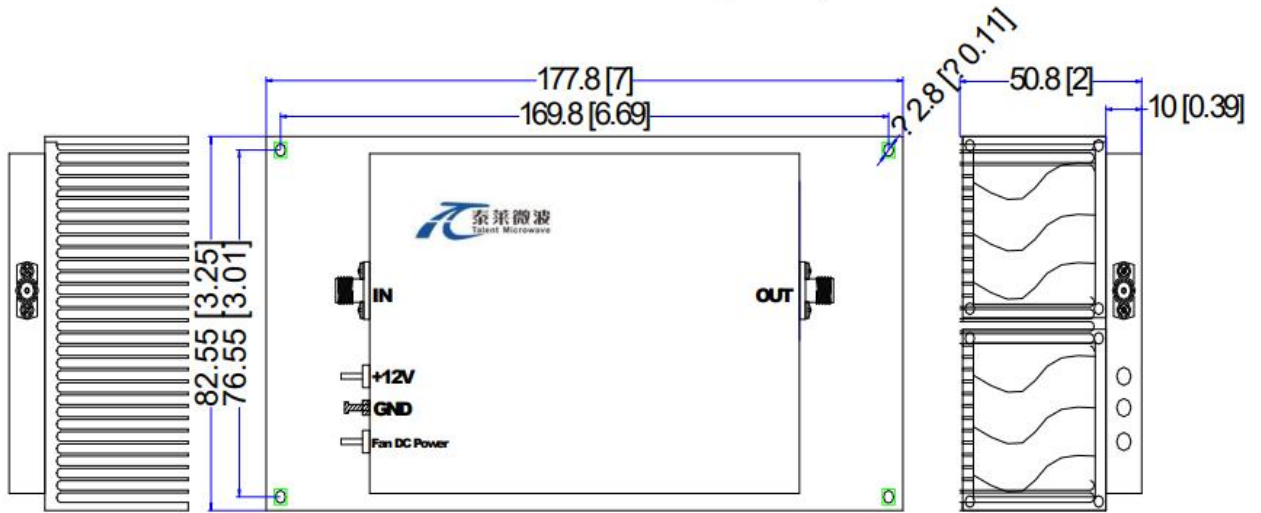
绝对最大值 Absolute Maximum Ratings:

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



温度环境 Environmental Conditions:



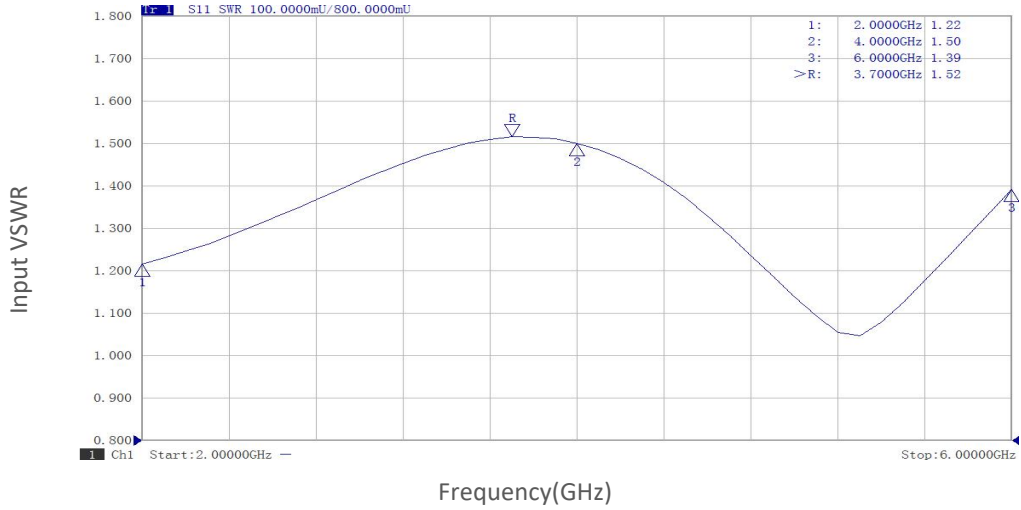
参数Parameter	Min	Typ	Max	单位Units
操作温度 Operating Temperature	-40		+75	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

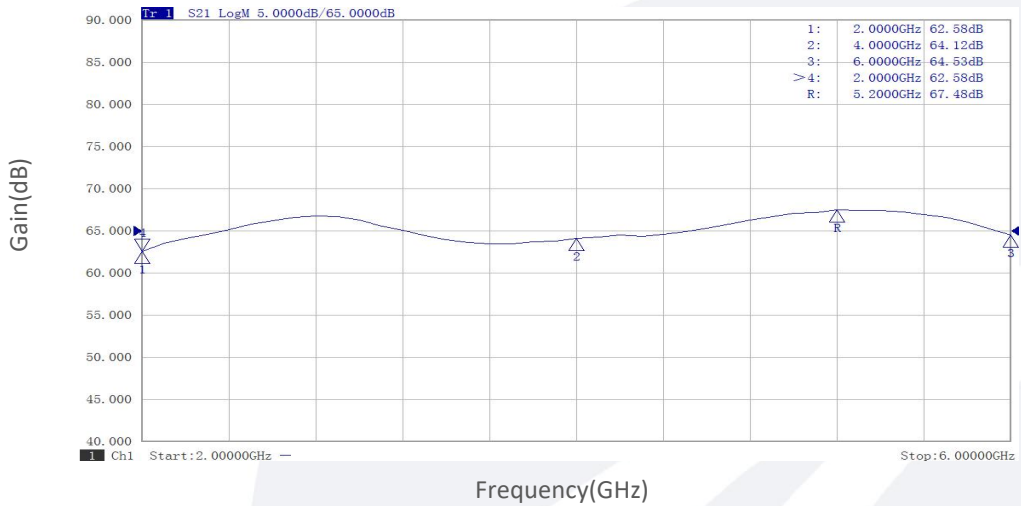
标准型号 Part Number	描述 Description	版本号Revision
TLPA2G6G-45-47	Power amplifier 2-6GHz,Gain:45dB,Psat:47dBm,+28V DC,Without Heatsink.	Rev.1.1
TLPA2G6G-45-47-HS	Power amplifier 2-6GHz,Gain:45dB,Psat:47dBm,+28V DC,With Heatsink.	Rev.1.1

典型曲线 Typical Performance Data:

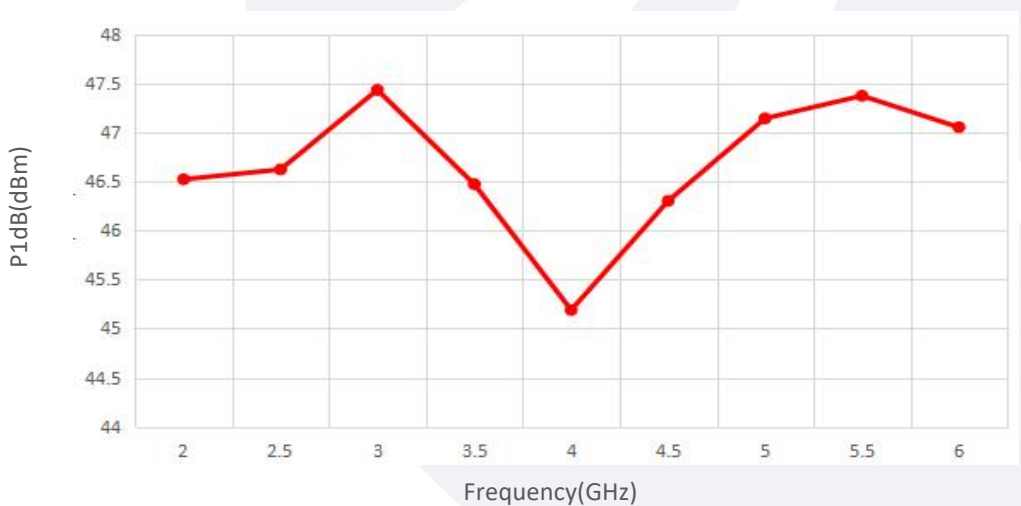
Input VSWR vs Frequency



Gain vs Frequency

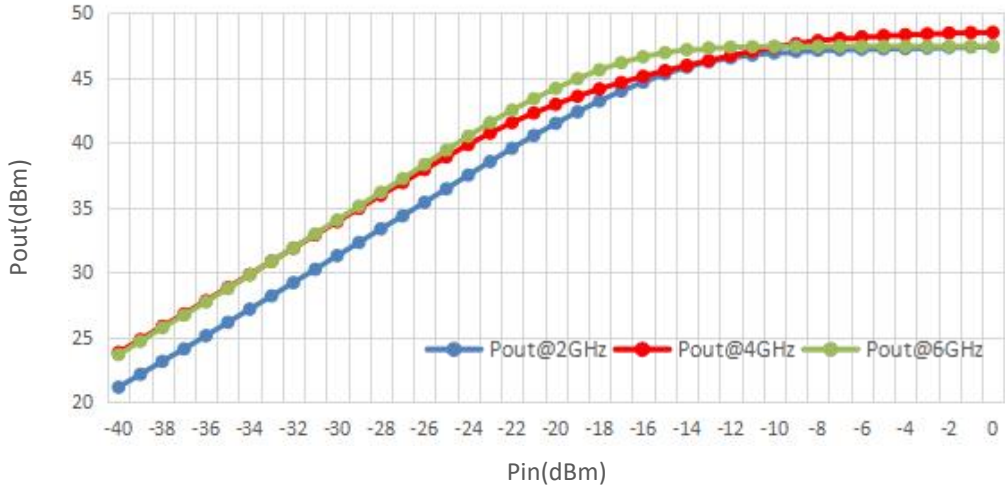


P1dB vs Frequency

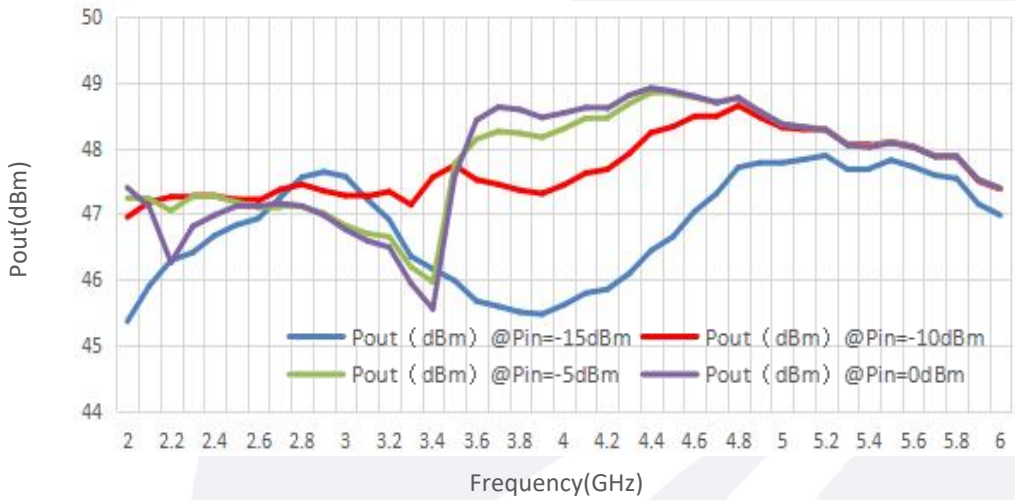


典型曲线 Typical Performance Data:

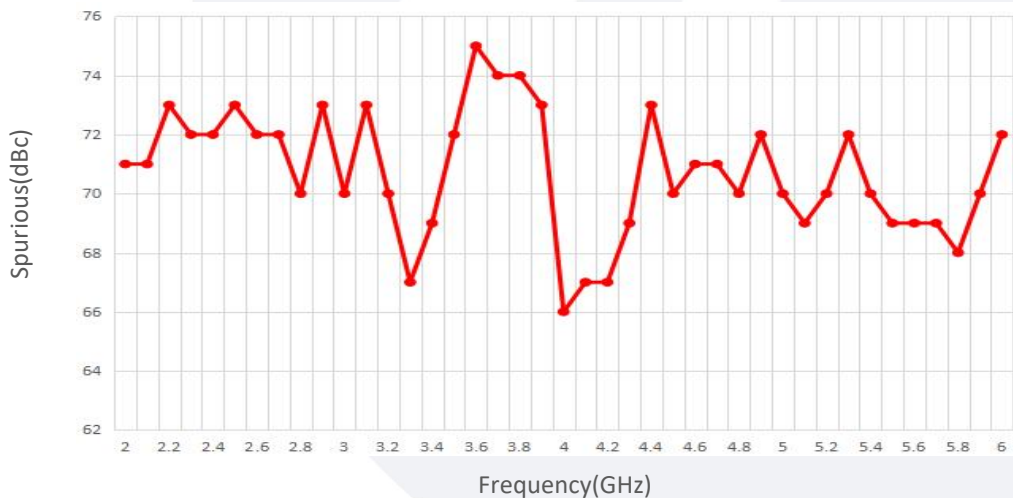
Pout@Pin



Pout@Equal_Pin



Spurious vs Frequency



典型曲线 Typical Performance Data:

Harmonic vs Frequency

