

Model:TLPA47G52G-20-18
Power Amplifier
47-52GHz,Gain:20dB,P1dB:18dBm
Feature:

- Ultra Wide Band: 47-52GHz
- Gain:20dB Min
- P1dB Output Power:18dBm 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	47-52			GHz
增益 Gain	20			dB
线性输出功率 Output P1dB	18			dBm
杂散 Spurious			-50	dBc
直流电压 DC Voltage		+12		V DC
直流电流 DC Supply Current			0.7	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	2.4 Female/2.4 Female	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	60*65*11	mm
重量 Weight	500	g

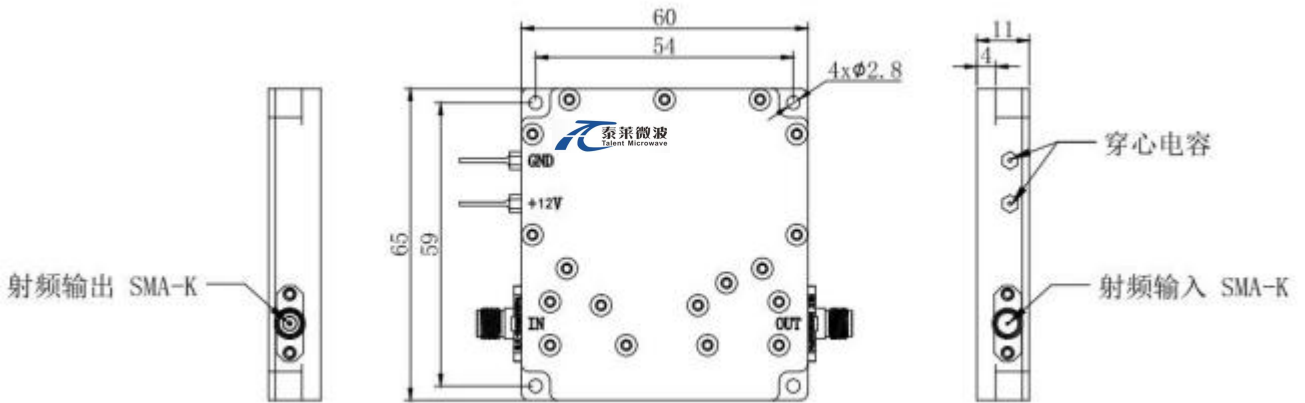
绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+12V
输入功率 RF Input Power	+5dBm
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**



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

温度环境 Environmental Conditions:

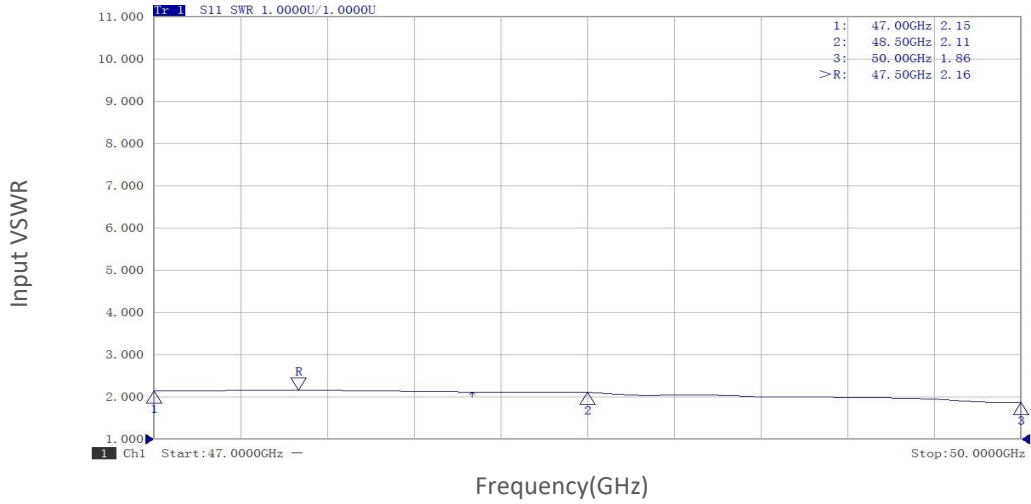
参数Parameter	Min	Typ	Max	单位Units
操作温度 Operating Temperature	-40		+60	°C
存储温度 Non-operating Temperature	-45		+85	°C
相对湿度 Relative humidity		95		%
海拔 Altitude		50000		feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

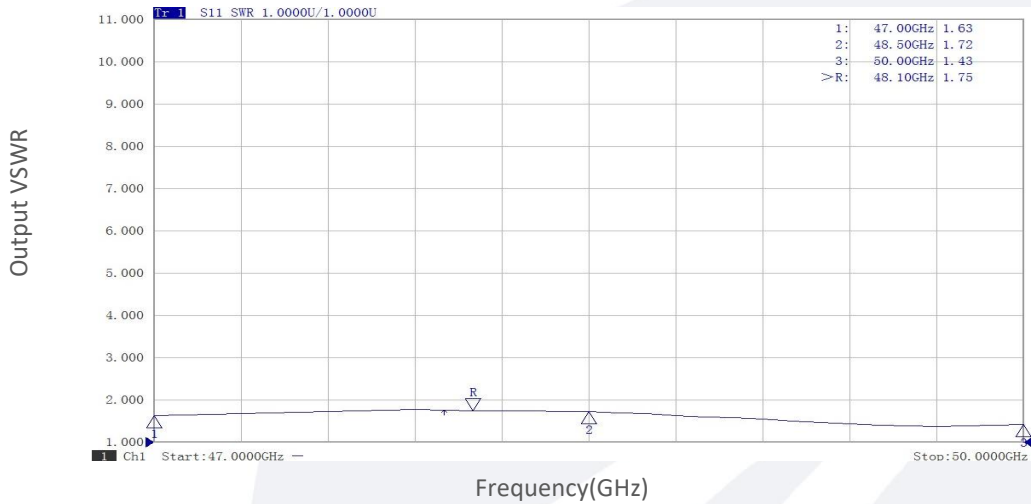
标准型号 Part Number	描述 Description	版本号Revision
TLPA47G52G-20-18	Power amplifier 47-52GHz,Gain:20dB,P1dB:18dBm,+12V DC,Without Heatsink.	Rev.1.1
TLPA47G52G-20-18-HS	Power amplifier 47-52GHz,Gain:20dB,P1dB:18dBm,+12V DC,With Heatsink.	Rev.1.1

典型曲线 Typical Performance Data:

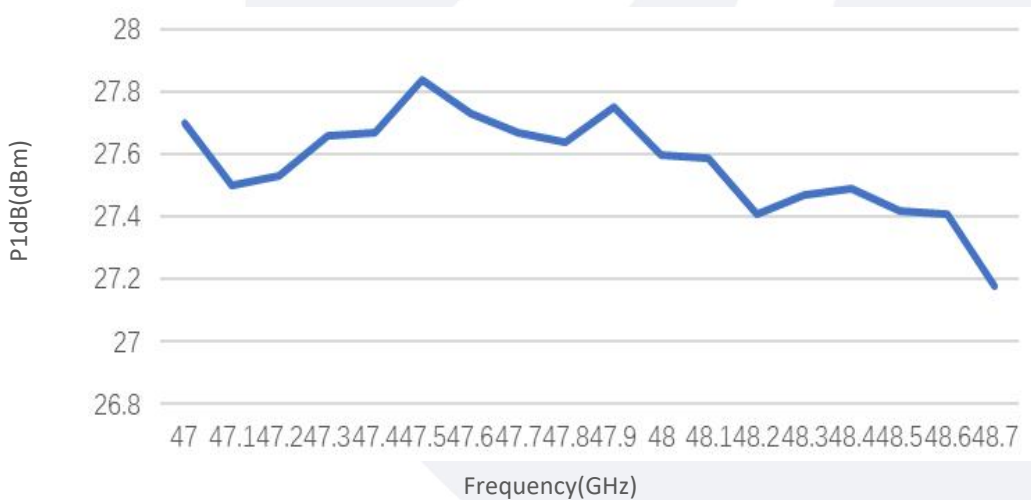
Input VSWR vs Frequency



Output VSWR vs Frequency

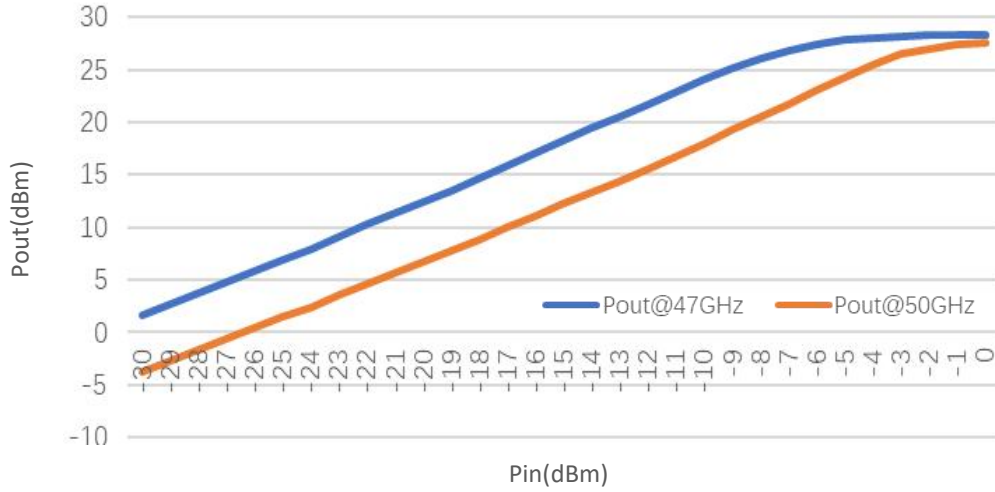


P1dB vs Frequency

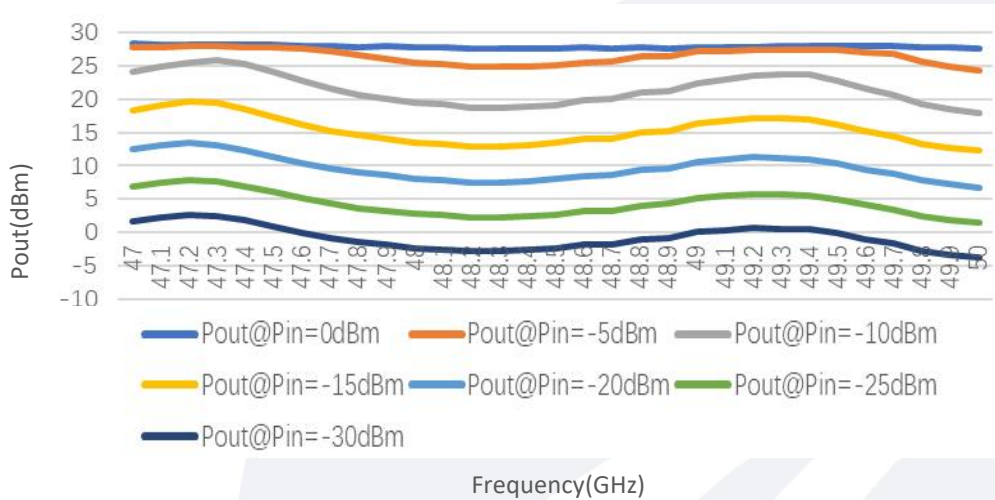


典型曲线 Typical Performance Data:

Pout@Pin



Pout@Equal_Pin



Spurious vs Frequency

