

Model:TLPA1G8G-40-40
Power Amplifier
1-8GHz,Gain:40dB,Psat:40dBm
Feature:

- Ultra Wide Band: 1-8GHz
- Gain:40dB Min
- Psat Output Power:40dBm 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	1-8			GHz
增益 Gain	40			dB
增益平坦度 Gain Flatness		±3		dB
饱和输出功率 Output Psat	40			dBm
杂散 Spurious@Psat			-50	dBc
谐波 Harmonics@Psat			-10	dBc
输入驻波 Input VSWR			2	:1
直流电压 DC Voltage		+28		V DC
直流电流 DC Supply Current			4.5	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	
DC加电接口 DC Power Interface	J30J-9ZKP	
尺寸 Size	150*90*20	mm
重量 Weight	500	g

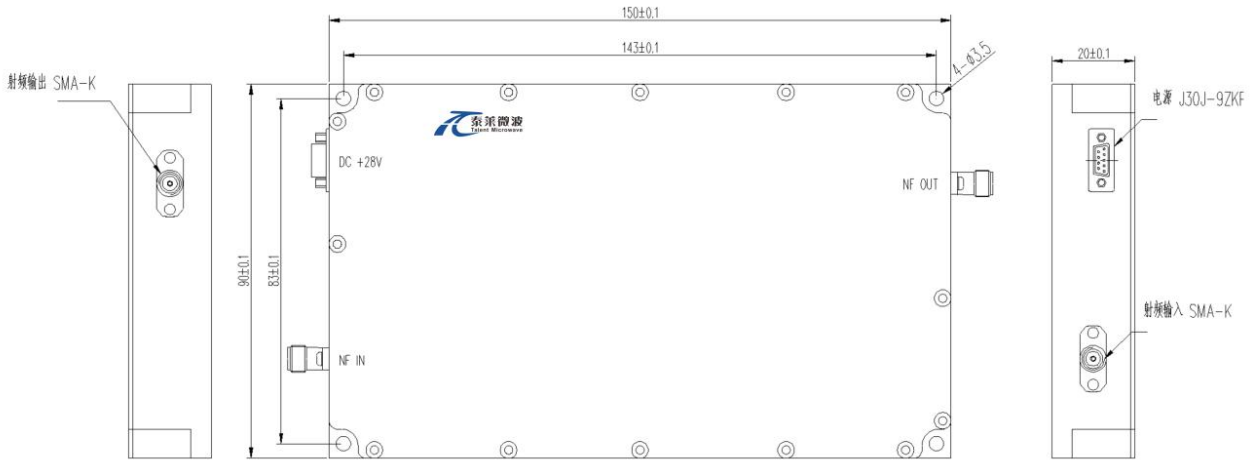
绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	TBD
输入功率 RF Input Power	10dBm
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**

J30J-9ZKP Define	
引脚 Pin	功能 Function
1-5	+28V
6-9	GND



温度环境 Environmental Conditions:

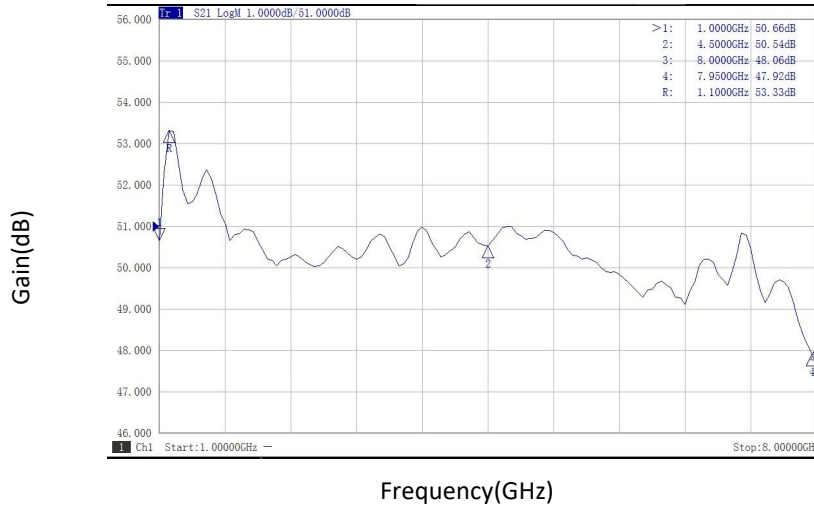
参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-40		+60	°C
存储温度 Non-operating Temperature	-45		+65	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

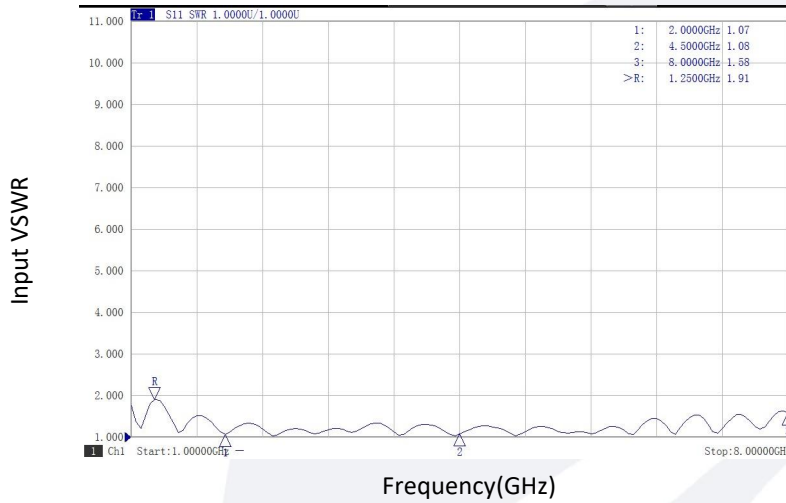
标准型号 Part Number	描述 Description	版本号 Revision
TLPA1G8G-40-40	Power amplifier 1-8GHz, Gain:40dB, Psat:40dBm, +28V DC, Without Heatsink.	Rev.1.1
TLPA1G8G-40-40-HS	Power amplifier 1-8GHz, Gain:40dB, Psat:40dBm, +28V DC, With Heatsink.	Rev.1.1

典型曲线 Typical Performance Data:

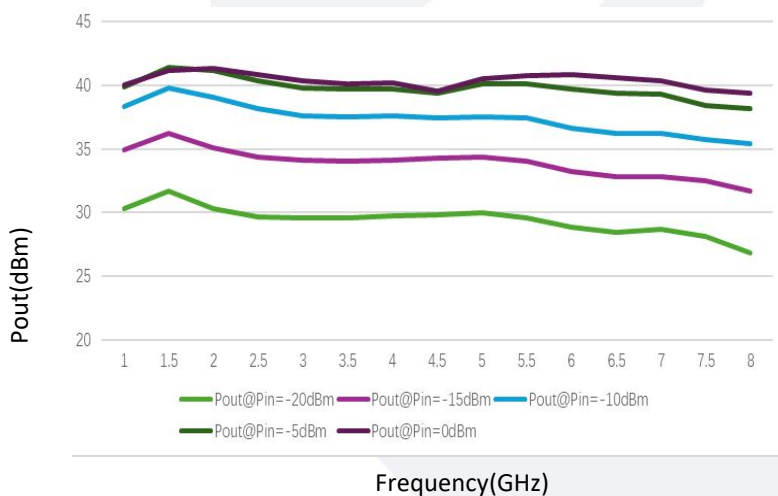
Gain vs Frequency



Input VSWR vs Frequency

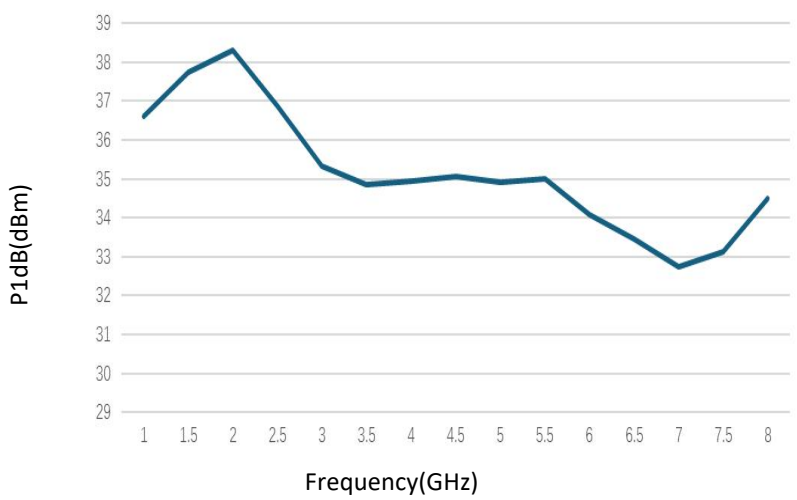


Pout@Equal_Pin

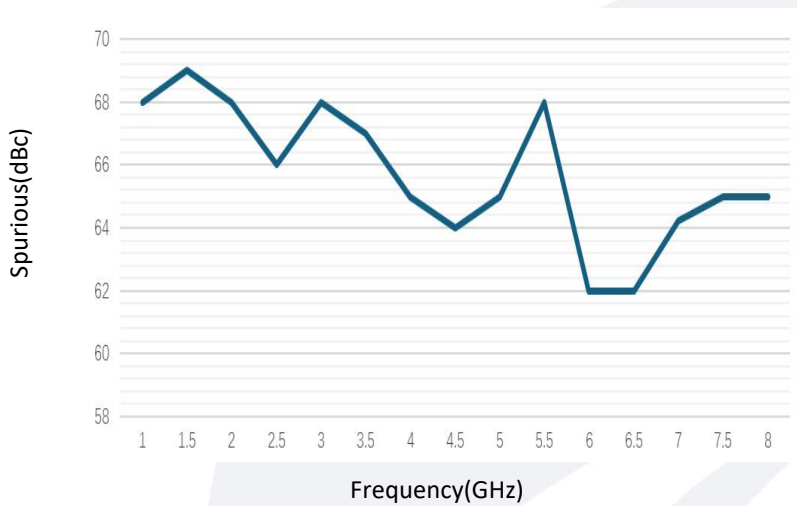


典型曲线 Typical Performance Data:

P1dB vs Frequency



Spurious@Pout=40dBm



Harmonics@Pout=40dBm

