

Model:TLPA4G6G-40-41
Power Amplifier
4-6GHz,Gain:40dB,Psat:41dBm
Feature:

- Ultra Wide Band: 4-6GHz
- Gain:40dB Min
- Psat Output Power: 41dBm 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	4-6			GHz
小信号增益 Small Signal Gain	40	42		dB
增益平坦度 Gain Flatness		±2	±3	dB
线性输出功率 Output P1dB	40	40.5		dBm
饱和输出功率 Output Psat	41	41.5		dBm
谐波 Harmonics			-15	dBc
输入驻波 Input VSWR		1.5	2.0	:1
直流电压 DC Voltage	+26	+28	+30	V DC
直流电流 DC Supply Current		0.5	2	A
阻抗 Impedance	50			Ohms

机械特性 Mechanical Specifications:

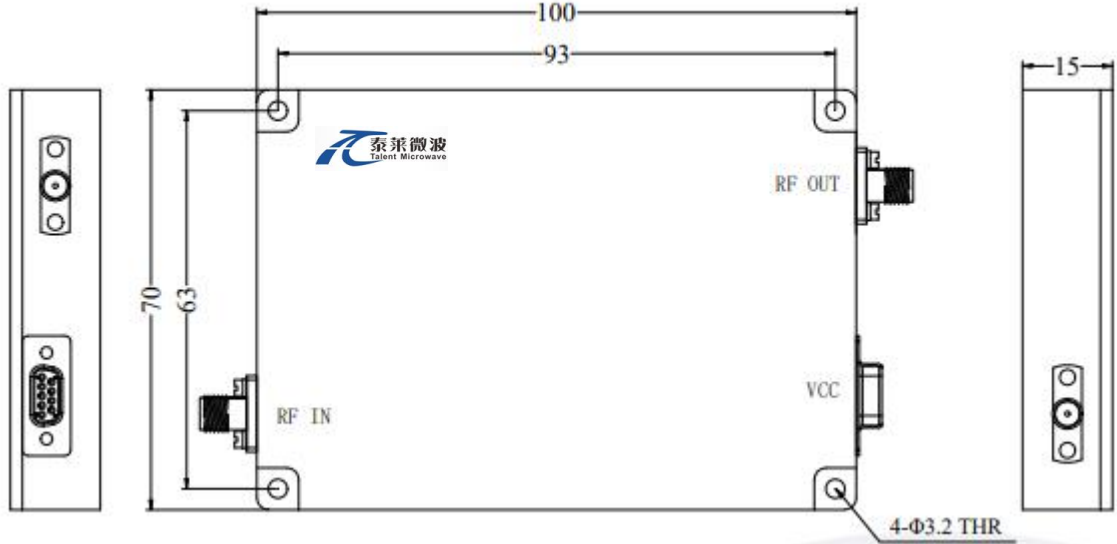
参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	SMA Female/SMA Female	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	100*86*40	mm
重量 Weight	250	g

绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+30V
输入功率 RF Input Power	5dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形尺寸Outline Drawing:

Unit: mm



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

直流供电连接器 J30J-9ZKW-J(配J30J-9TJL)



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

引脚编号	标识	功能详细说明
1	TTL	Turn on the amplifier at a high level!(or suspended)and turn off the amplifier when short circuited to ground.
2	GND	
3	GND	
4	GND	
5	GND	
6	+28V	+26.0-30.0VDC
7	+28V	+26.0-30.0VDC
8	+28V	+26.0-30.0VDC
9	+28V	+26.0-30.0VDC

备注: TTL为5V

温度环境 Environmental Conditions:

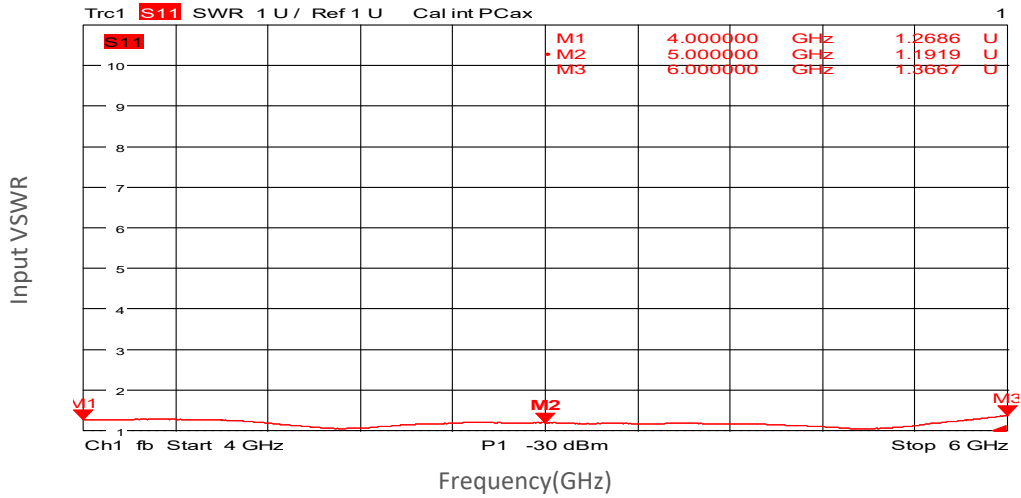
参数Parameter	Min	Typ	Max	单位Units
操作温度 Operating Temperature	-45		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	30,000			feet
震动 Shock / Vibration(MIL-STD-810F)	20g,11ms,saw-tooth			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

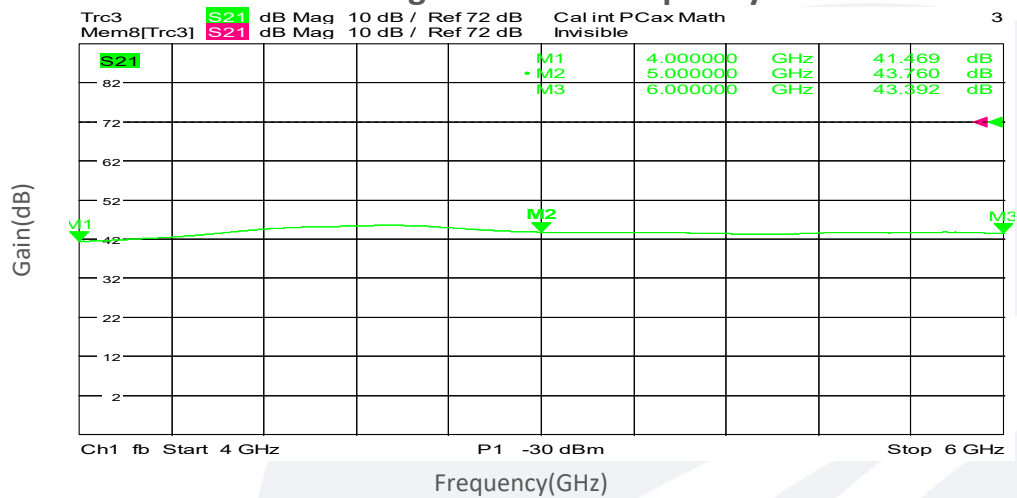
标准型号 Part Number	描述 Description	版本号Revision
TLPA4G6G-40-41	Power amplifier 4-6GHz,Gain:40dB,Psat:41dBm, +28V DC,Without Heatsink	Rev.1.1
TLPA4G6G-40-41-HS	Power amplifier 4-6GHz,Gain:40dB,Psat:41dBm, +28V DC,With Heatsink	Rev.1.1

典型曲线 Typical Performance Data:

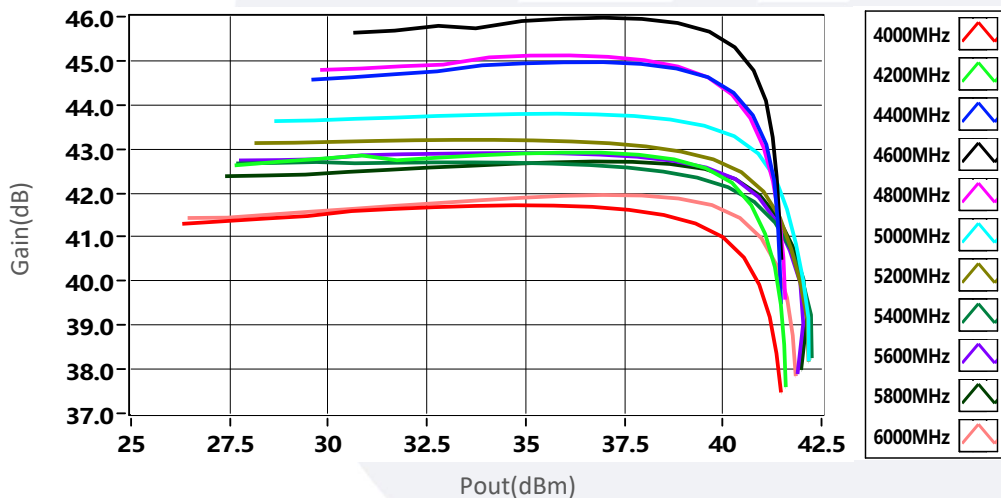
Input VSWR vs Frequency



Small Signal Gain vs Frequency



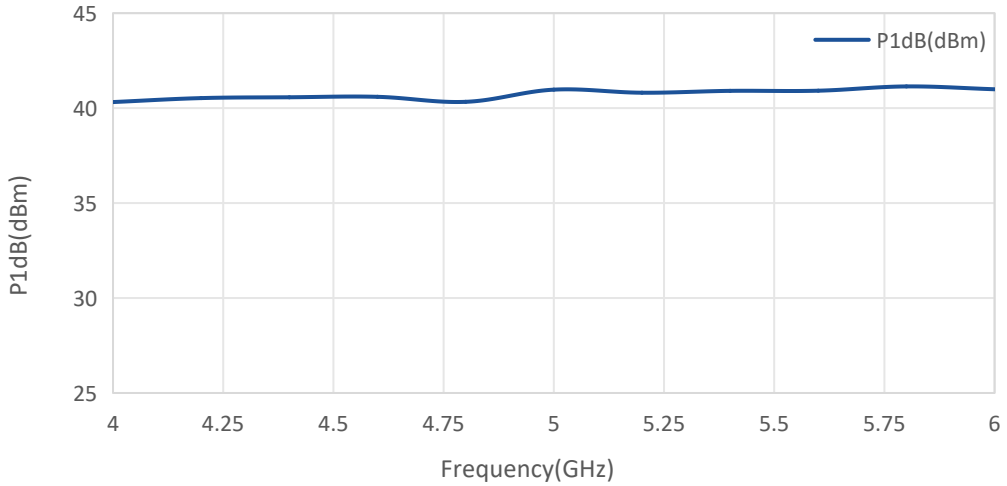
Gain vs Output Power



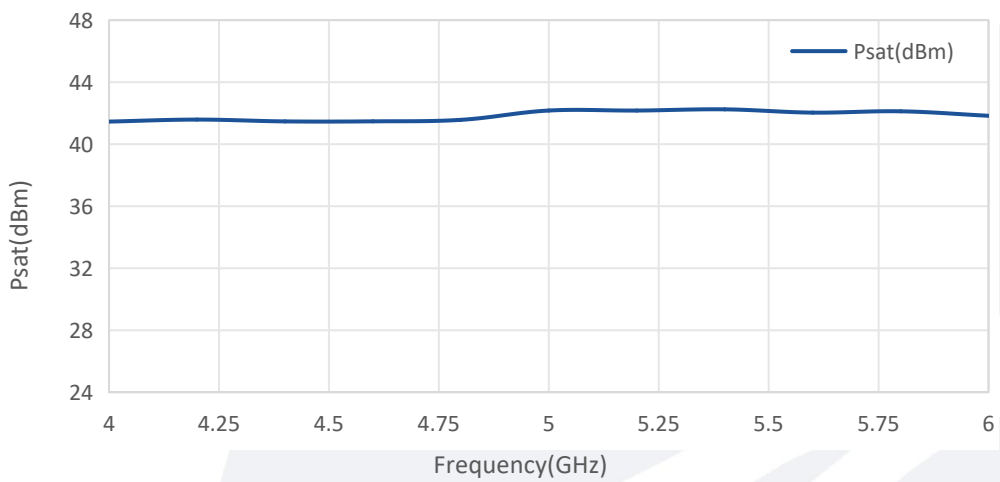
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

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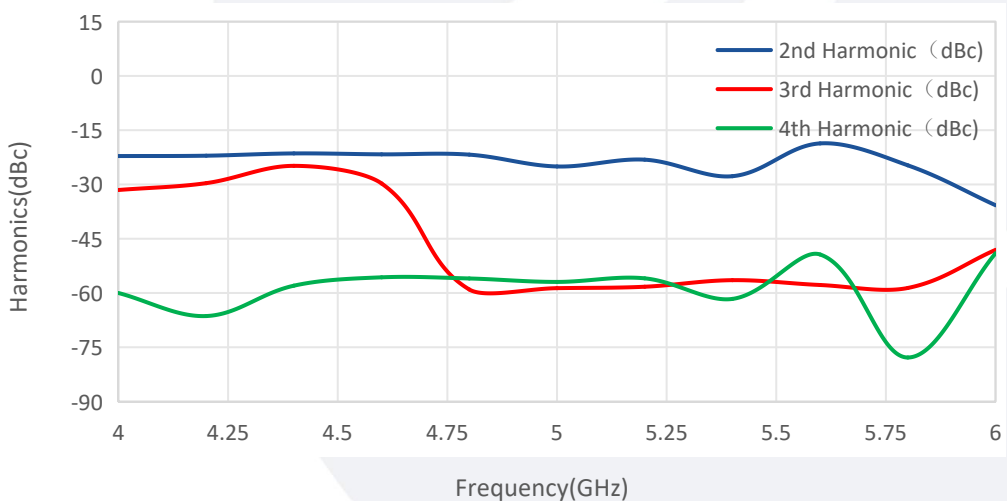
P1dB vs Frequency



Psat vs Frequency



Harmonics vs Frequency



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