

Model:TLPA18G40G-40-37
Power Amplifier
18-40GHz,Gain:40dB,Psat:37dBm
Feature:

- Ultra Wide Band:18-40GHz
- Gain:40dB Min
- Psat Output Power:37dBm 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	18-40			GHz
增益 Gain	40	45		dB
线性输出功率 Output P1dB	30	32		
饱和输出功率 Output Psat		37		dBm
杂散 Spurious			-50	dBc
输入驻波 Input VSWR		2		:1
直流电压 DC Voltage		+20		V DC
功耗 Power Consumption			90	W
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	2.92 Female/2.92 Female	
DC加电接口 DC Power Interface	J30J-9ZKP	
尺寸 Size	150*90*20	mm
重量 Weight	0.5	Kg

绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+24V
输入功率 RF Input Power	0dBm
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引脚定义	
Pin	Function
1-5	+20V
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*	-50		+70	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	10,000			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			

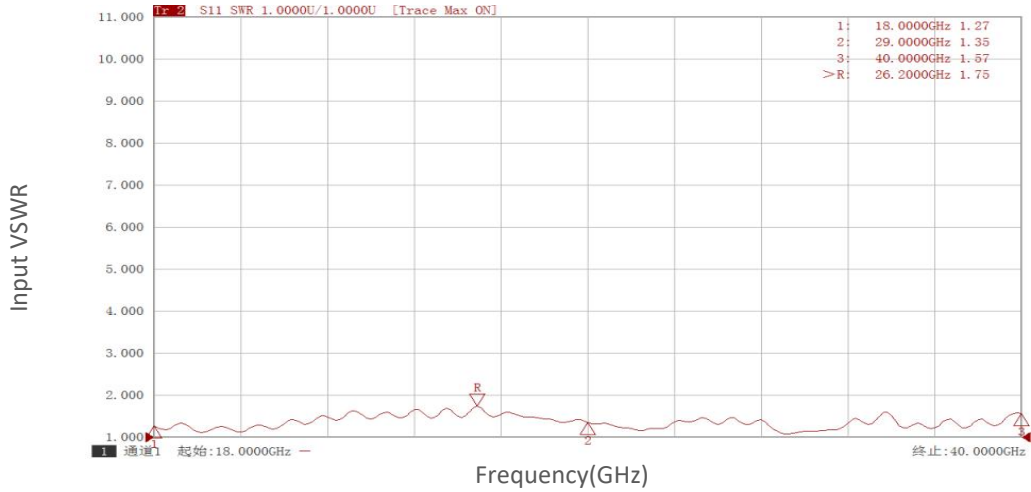
*Note: For a wider temperature range, please consult the manufacturer.

订货信息 Ordering Information:

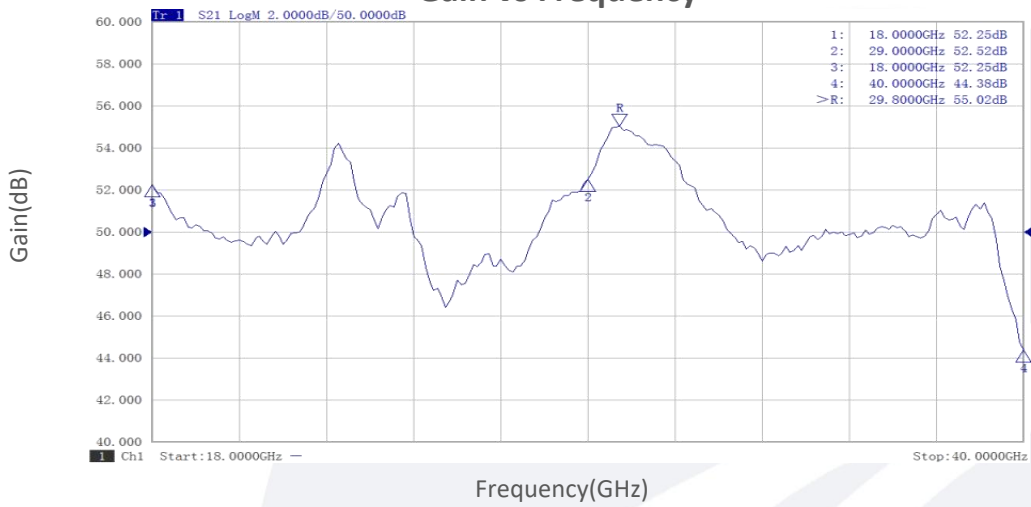
标准型号 Part Number	描述 Description	版本号 Revision
TLPA18G40G-40-37	Power amplifier 18-40GHz, Gain 40dB, Psat:37dBm, +20V DC, Without Heatsink.	Rev.1.1
TLPA18G40G-40-37-HS	Power amplifier 18-40GHz, Gain 40dB, Psat:37dBm, +20V DC, With Heatsink.	Rev.1.1

典型曲线 Typical Performance Data:

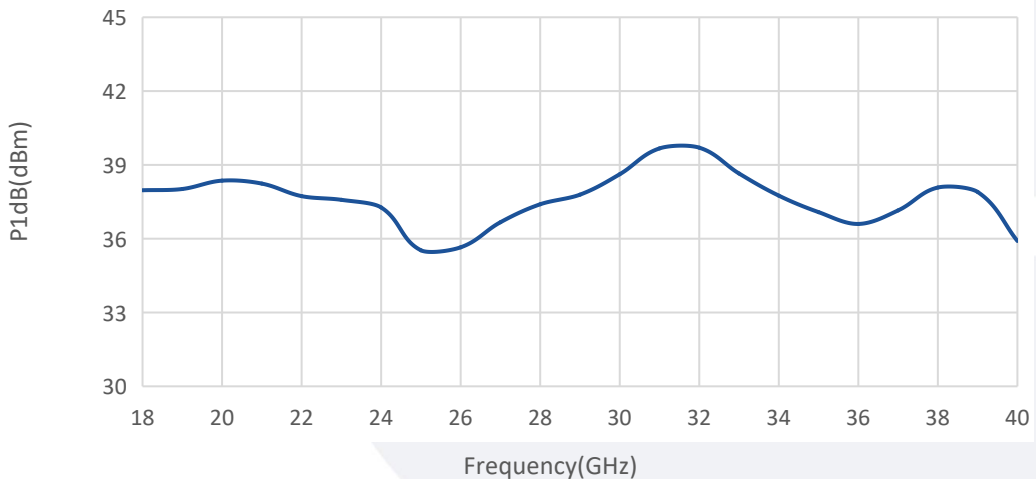
Input VSWR vs Frequency



Gain vs Frequency



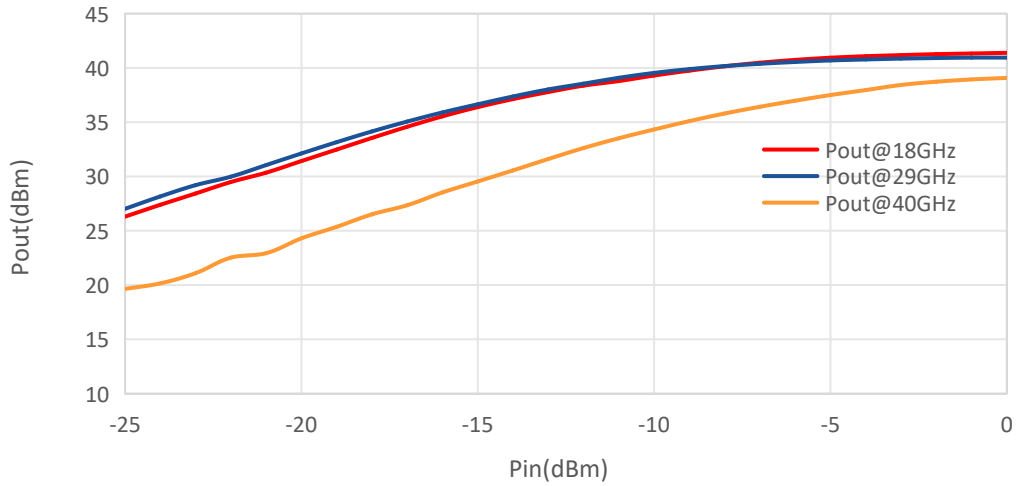
P1dB vs Frequency



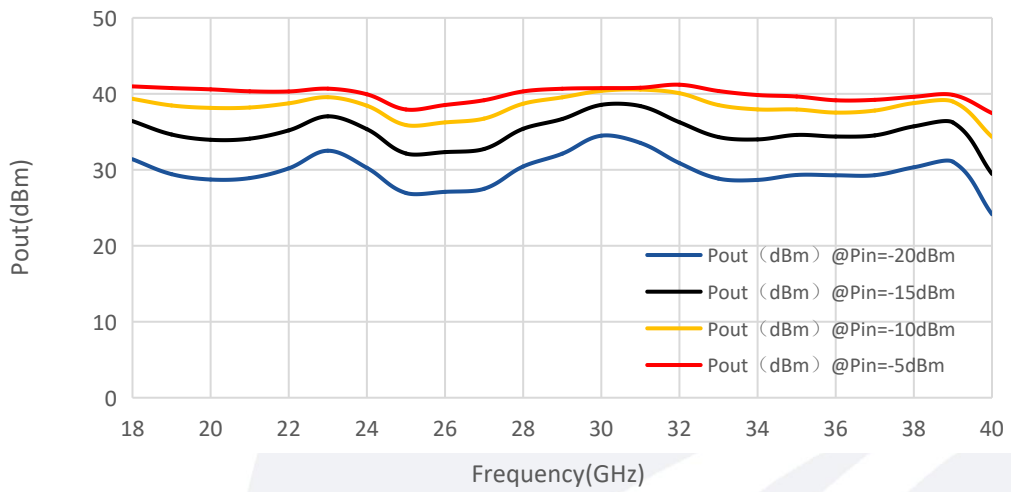
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

典型曲线 Typical Performance Data:

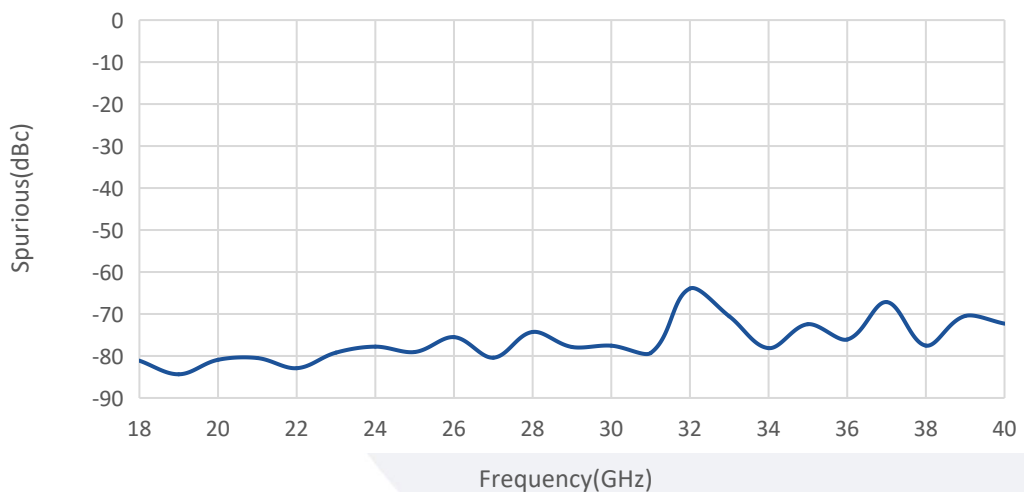
Pout@Pin



Pout@Equal_Pin



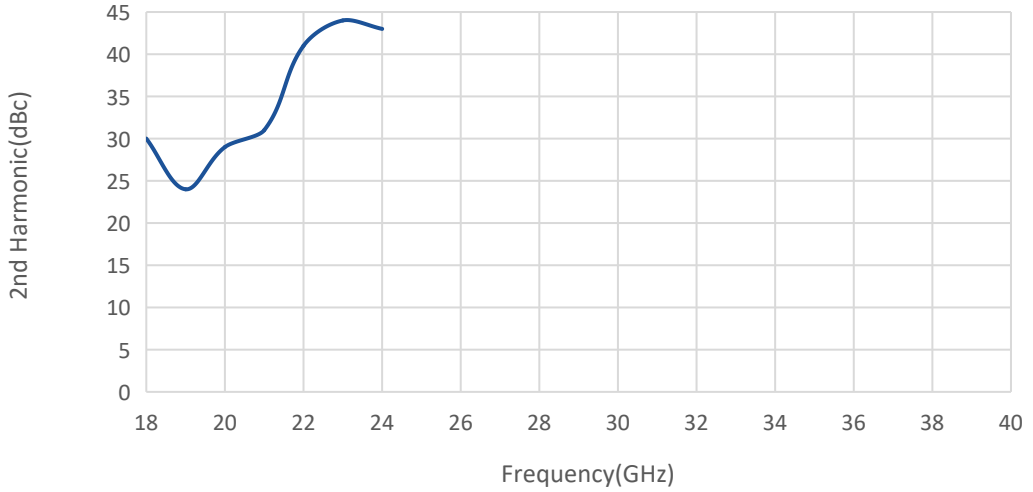
Spurious vs Frequency



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典型曲线 Typical Performance Data:

2nd Harmonic vs Frequency



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