

**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	+24	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-92KP 引脚定义	
Pin	Function
1-5	+24V
6-9	GND



温度环境 Environmental Conditions:

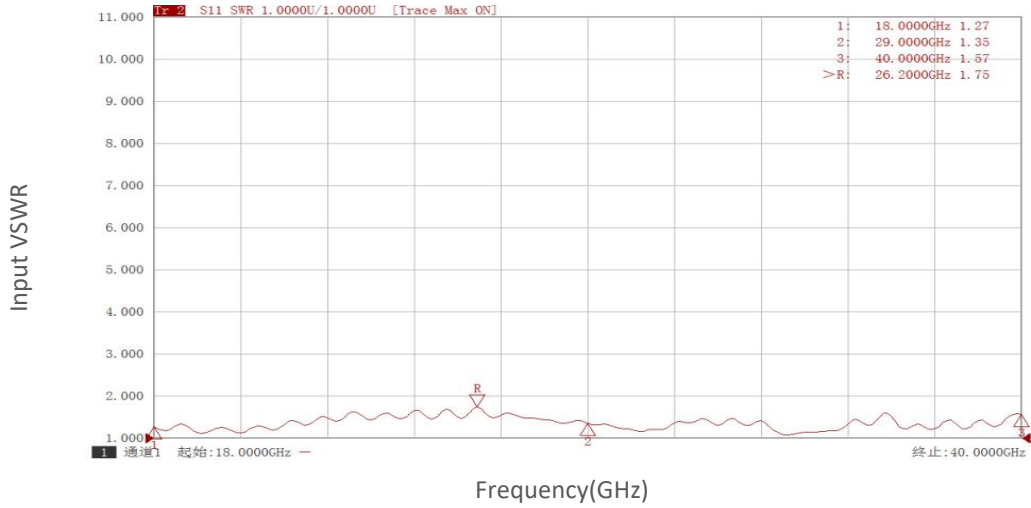
参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-0		+40	°C
存储温度 Non-operating Temperature	-45		+65	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

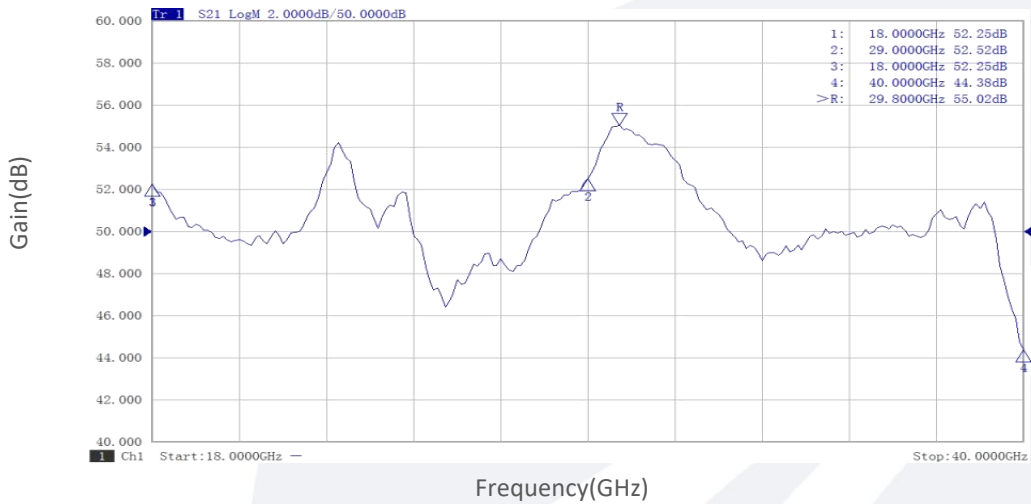
标准型号 Part Number	描述 Description	版本号 Revision
TLPA18G40G-40-37	Power amplifier 18-40GHz, Gain 40dB, Psat:37dBm, +20V DC, Without Heatsink.	Rev.1.1
TLPA18G40G-40-37-HS	Power amplifier 18-40GHz, Gain 40dB, Psat:37dBm, +20V DC, With Heatsink.	Rev.1.1

典型曲线 Typical Performance Data:

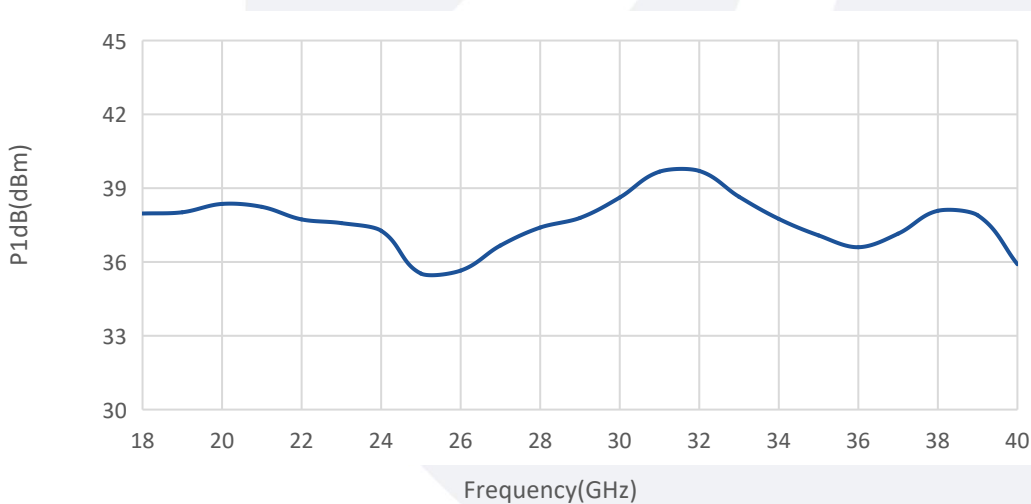
Input VSWR vs Frequency



Gain vs Frequency

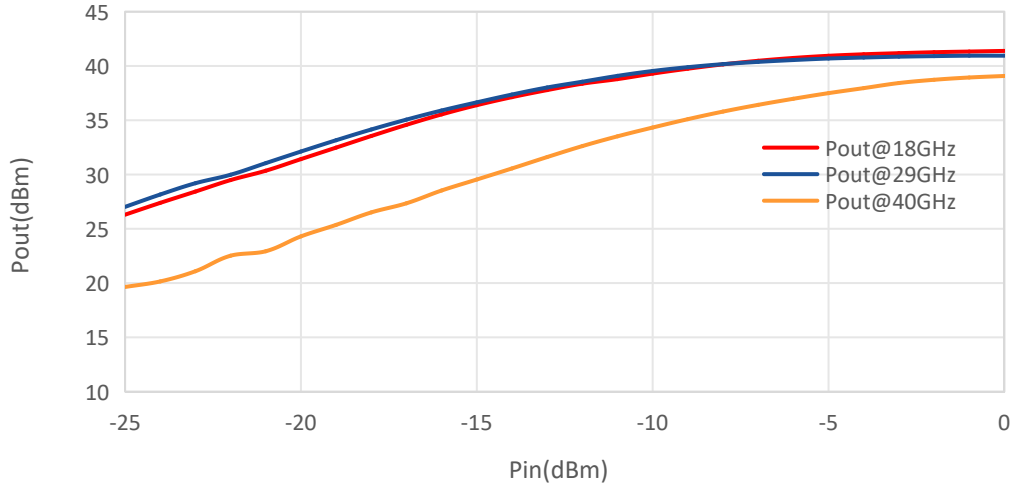


P1dB vs Frequency

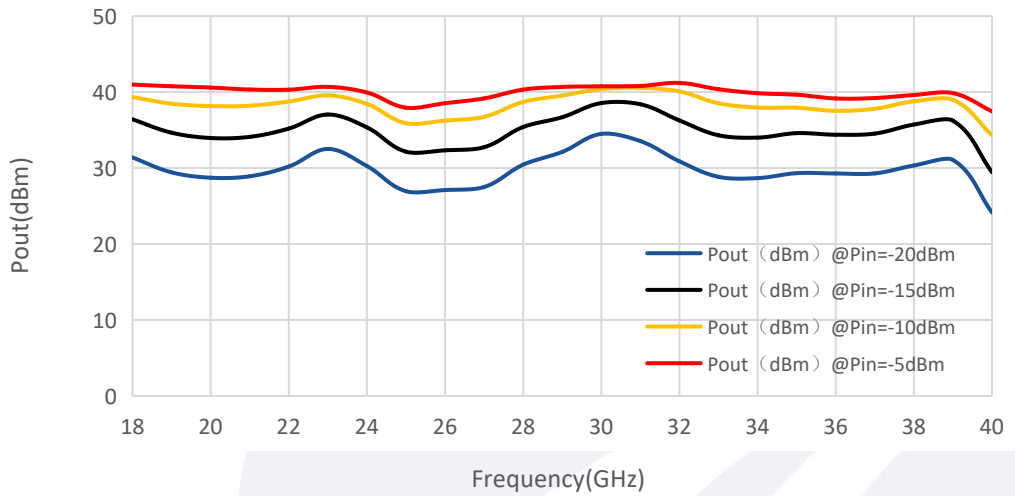


典型曲线 Typical Performance Data:

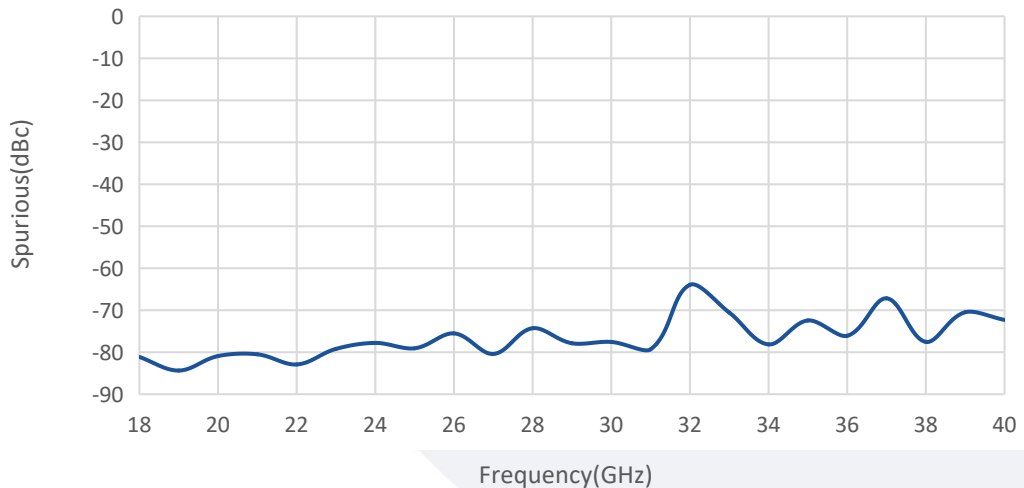
Pout@Pin



Pout@Equal\_Pin



Spurious vs Frequency



典型曲线 Typical Performance Data:

2nd Harmonic vs Frequency

