

Model:TLPA2G18G-40-37

Power Amplifier
2-18GHz,Gain:40dB,Psat:37dBm

Feature:

- Ultra Wide Band:2-18GHz
- Gain:40dB Min
- Psat Output Power:37dBm 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	2-18			GHz
增益 Gain	40			dB
增益平坦度 Gain Flatness		±3		dB
饱和输出功率 Output Psat	37			dBm
杂散 Spurious			-60	dBc
输入驻波 Input VSWR			2	:1
直流电压 DC Voltage		+28	+29	V DC
功耗 Power Consumption			80	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	SMA Female/SMA Female	
DC加电接口 DC Power Interface	J30J-9ZKP	
尺寸 Size	200*100*30	mm
重量 Weight	1	Kg

绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+29V
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



J30J-9ZKP Define

引脚 Pin	功能 Function
1	TTL Amplifier Disable: TTL Logic Low
2-5	+28V
6-9	GND

***Heat Sink Required During Operation

温度环境 Environmental Conditions:



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

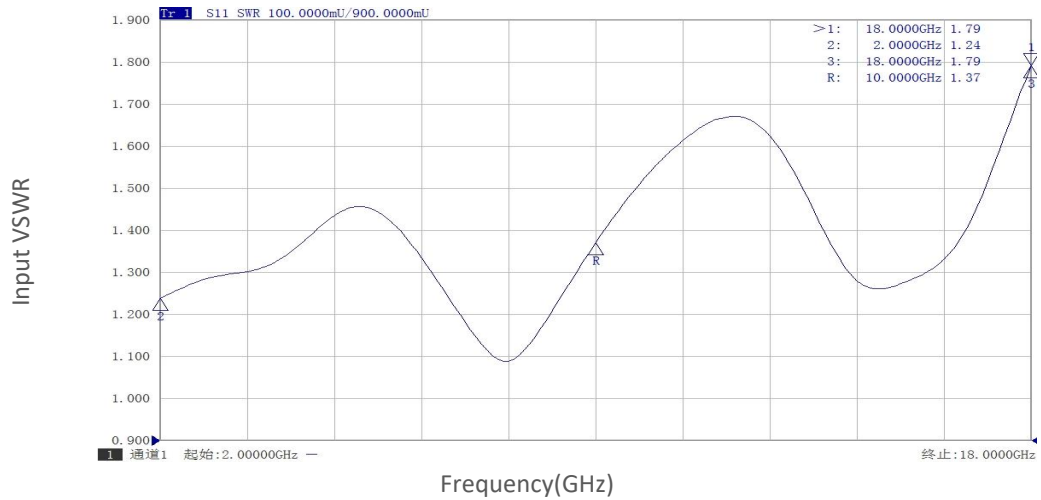
参数Parameter	Min	Typ	Max	单位Units
操作温度 Operating Temperature	-40		+60	°C
存储温度 Non-operating Temperature	-45		+65	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

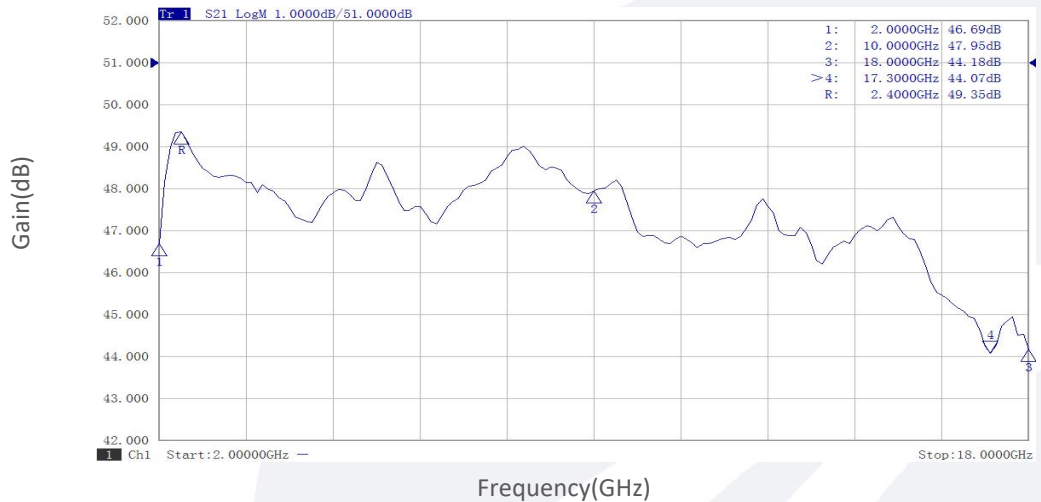
标准型号 Part Number	描述 Description	版本号Revision
TLPA2G18G-40-37	Power amplifier 2-18GHz,Gain:40dB,Psat:37dBm,+28V DC,Without Heatsink.	Rev.1.1
TLPA2G18G-40-37-HS	Power amplifier 2-18GHz,Gain:40dB,Psat:37dBm,+28V DC,With Heatsink.	Rev.1.1

典型曲线 Typical Performance Data:

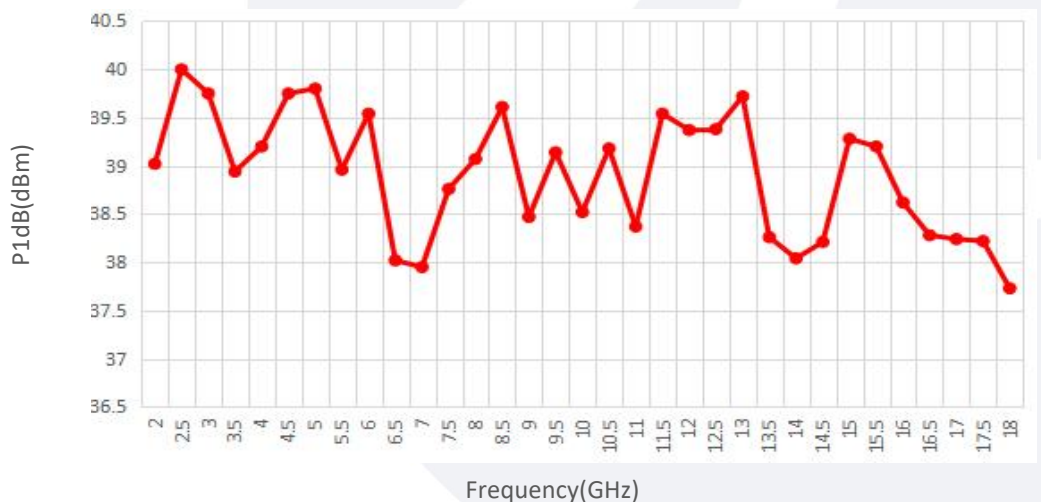
Input VSWR vs Frequency



Gain vs Frequency

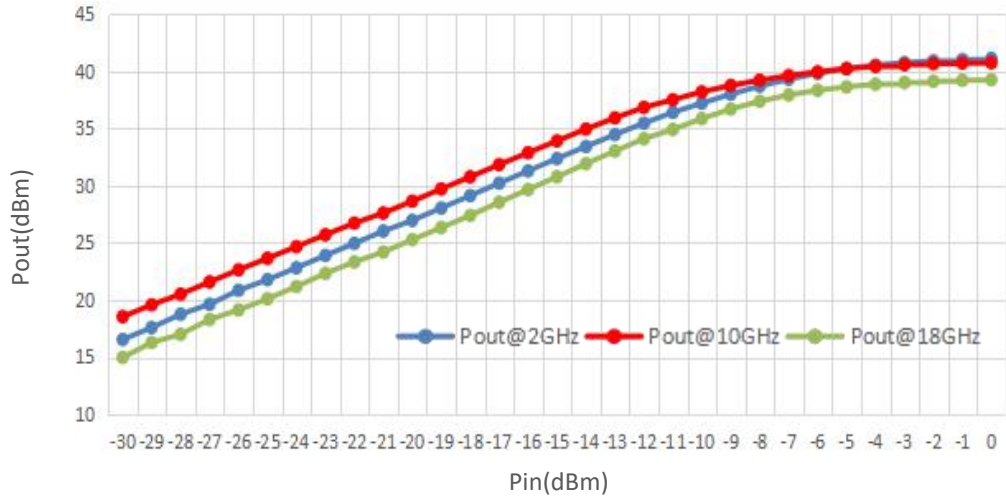


P1dB vs Frequency

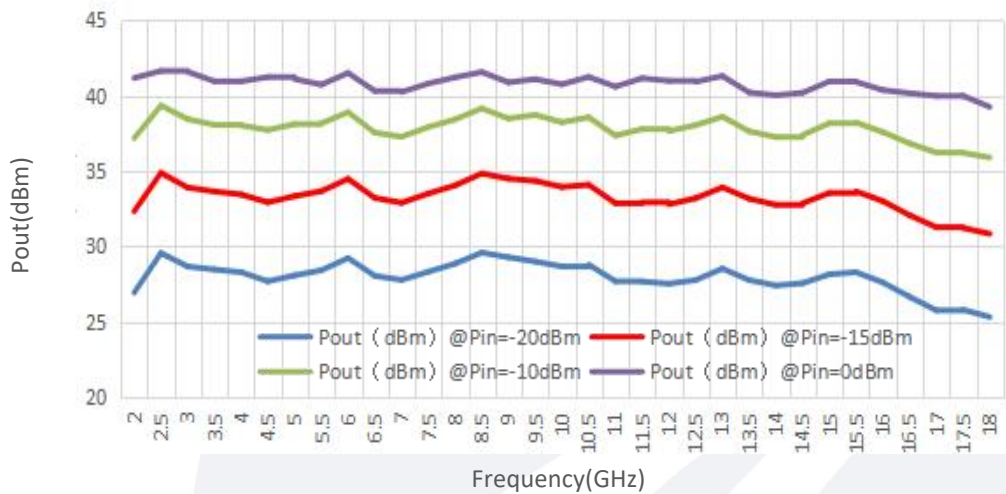


典型曲线 Typical Performance Data:

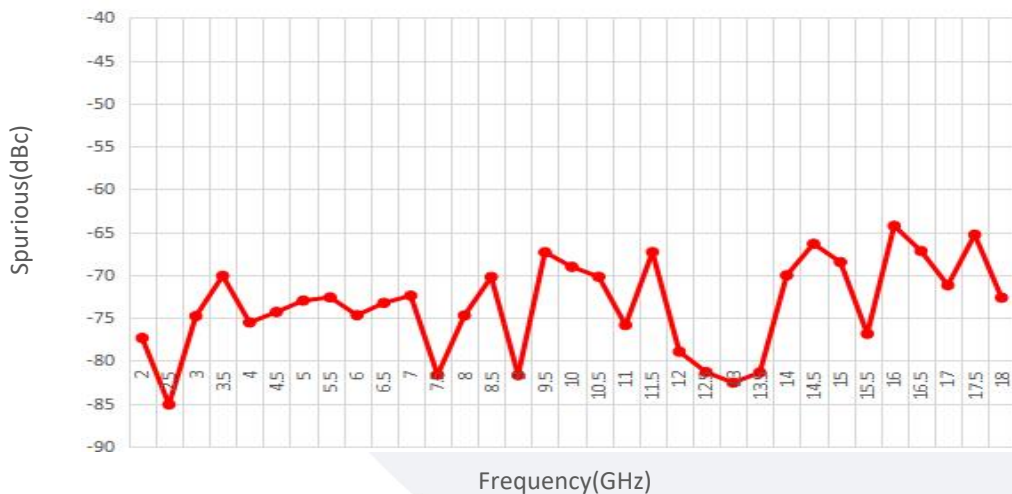
Pout@Pin



Pout@Equal_Pin



Spurious vs Frequency



典型曲线 Typical Performance Data:

Harmonic vs Frequency

