泰莱微波 Talent Microwave

Suzhou Talent Microwave,Inc
+86-0512-62657975
sales@talentmw.com
www.talentmw.com

Model:TLPA2G18G-40-37

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

Feature:

- Ultra Wide Band: 2-18GHz
- Gain: 40dB
- Psat Output Power: 37dBm
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

电气特性 Electrical:

参数Parameter	Min.	Typ.	Max.	单位Units
频率范围 Frequency range		2-18		GHz
功率增益 Power Gain	40			dB
饱和输出功率 Output Psat	37			dBm
增益平坦度 Gain Flatness		±3		dB
输入功率Input Power		0	10	dBm
杂散 Spurious@Pout=37dBm	60			dBc
输入驻波 Input VSWR			2.0	: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 :

参数Parameter	指标 Value	单位Units
输入输出接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	10 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

Available 220V System Benchtop Amplifier

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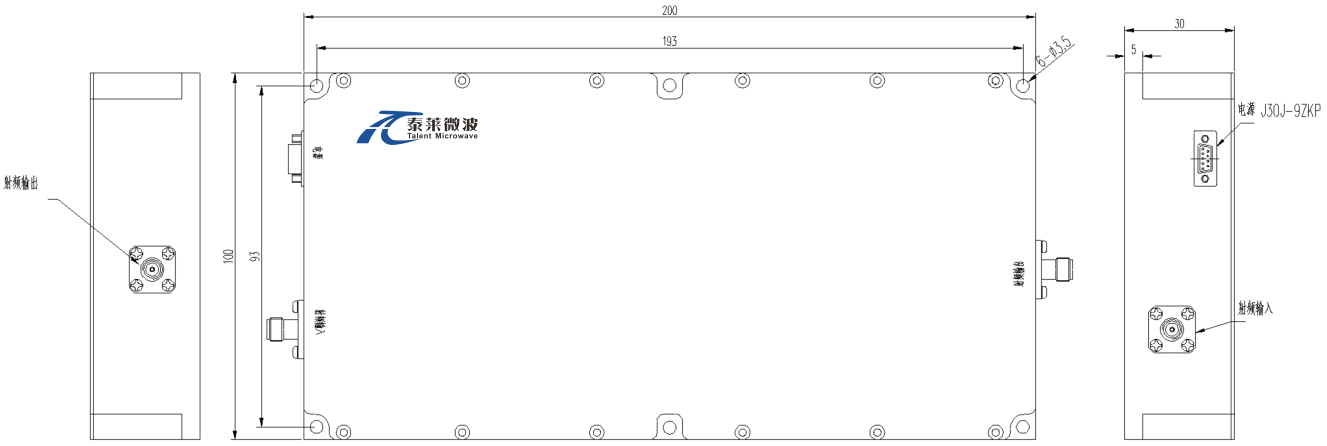
外形尺寸Outline Drawing:

Unit: mm



J30J-9ZKP Define	
引脚 Pin #	功能Function
1	TTL Amplifier Disable: TTL Logic Low
2-5	+28V
6-9	GND

OBSERVE PRECAUTIONS ELECTROSTATIC SENSITIVE DEVICES

温度环境 Environmental Conditions:

参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	-40		+60	℃
存储温度 Non-operating Temperature	-45		+65	℃
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
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

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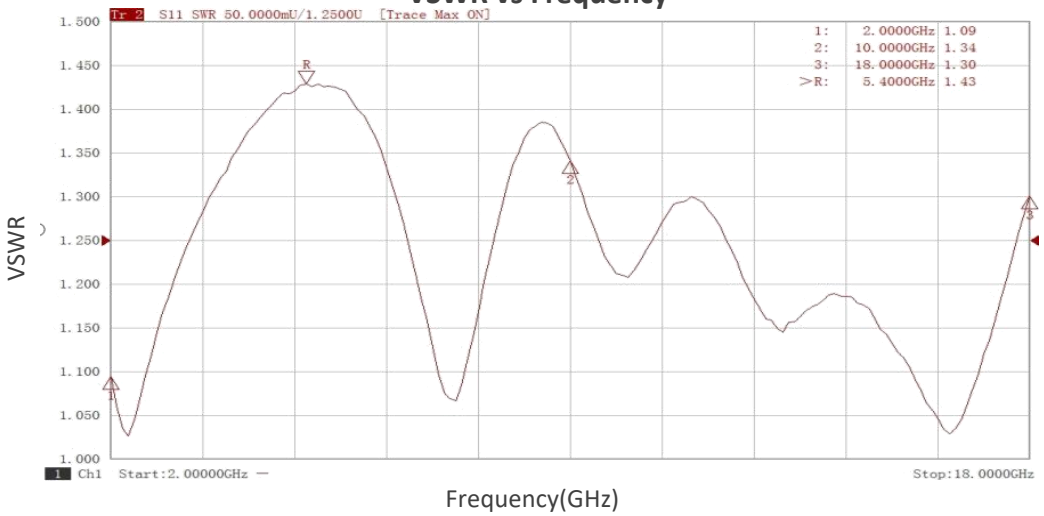
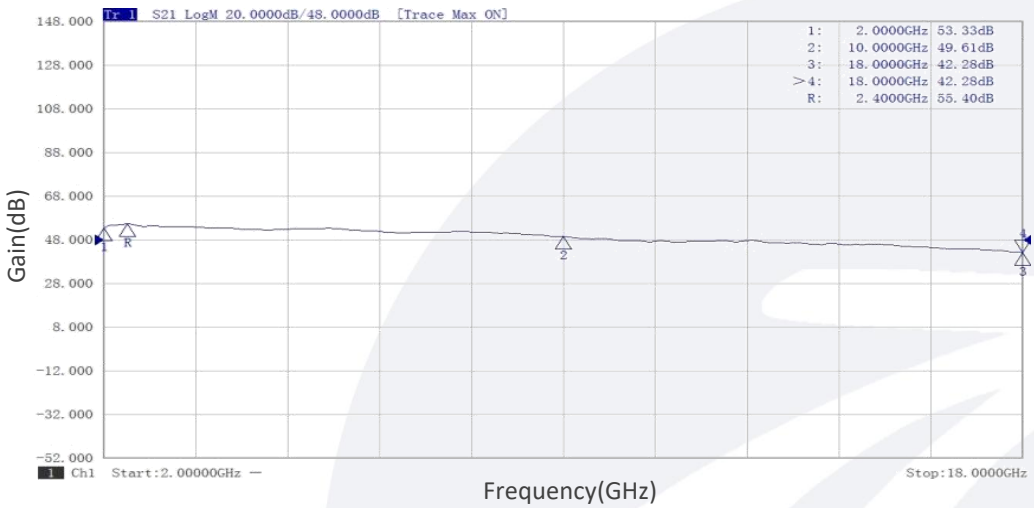
典型曲线 Typical Performance Data:

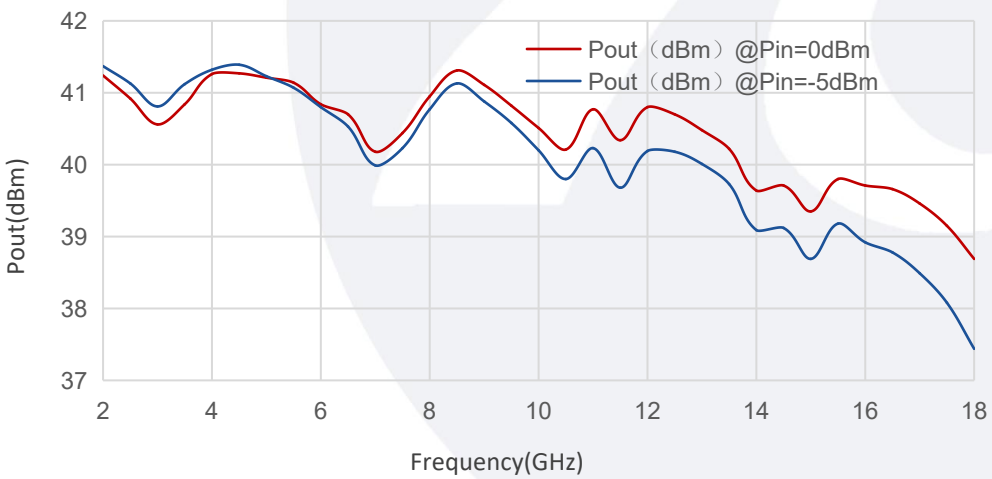
VSWR vs Frequency



Small Signal Gain vs Frequency



Pout@Equal-pin vs Frequency



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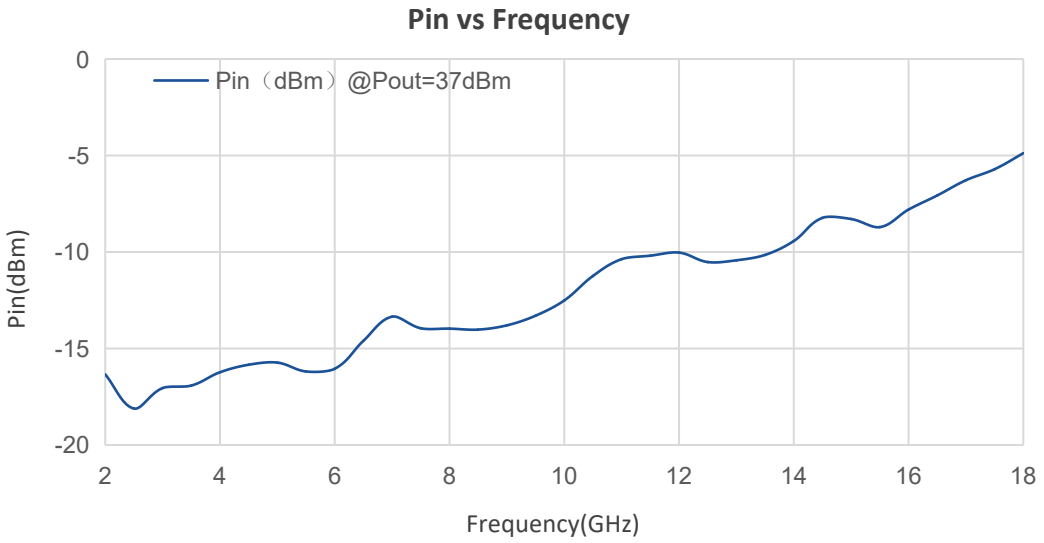

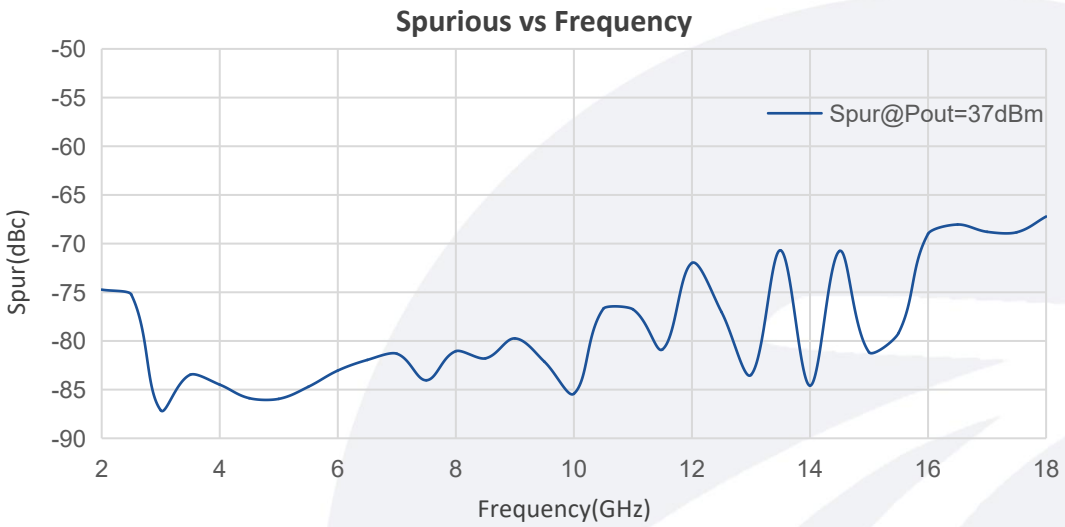

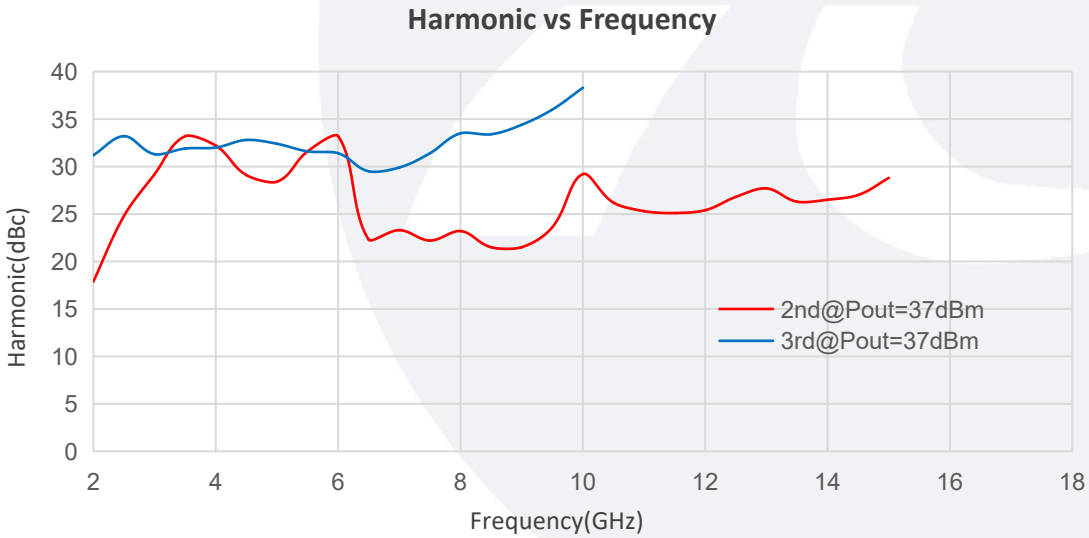

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