泰莱微波
Talent Microwave

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

Model:TLPA2G18G-50-47-BC

Solid State High Power Amplifier Systems 2-18GHz,Gain:50dB,Psat:47dBm,+28V DC

Feature:

- Ultra Wide Band: 2-18GHz
- Gain: 50dB Min
- Psat Output Power:47dBm Min
- 50 Ohm Matched Input / Output

电气特性 Electrical:

参数Parameter	Min.	Typ.	Max.	单位Units
频率 Frequency	2		18	GHz
饱和输出功率Psat	47			dBm
输入功率Pin		0	10	dBm
功率增益 Power Gain	50			%
功率增益平坦度 Gain flatness		±4.5	±5	dB
杂散抑制 Spurious@Pout=47dBm	60			dBc
谐波抑制Harmonics@Pout=47dBm	10			dBc
输入驻波 VSWR			2.0	:1
供电 Power Supply	+28			V
功耗 Power consumption			1400	W
散热 Cooling	Air cooling			
重量 Weight		10	25	Kg

机械特性 Mechanical :

序号 NO.	功能 FUNCTION	类型 TYPE	备注Remark
1	RF INPUT	SMA-K	
2	RF OUTPUT	M-K	
3	增益控制	J30J-9ZKP	
4	SUB-7W2	供电端口	A1:+28V A2:GND 1-5:NC

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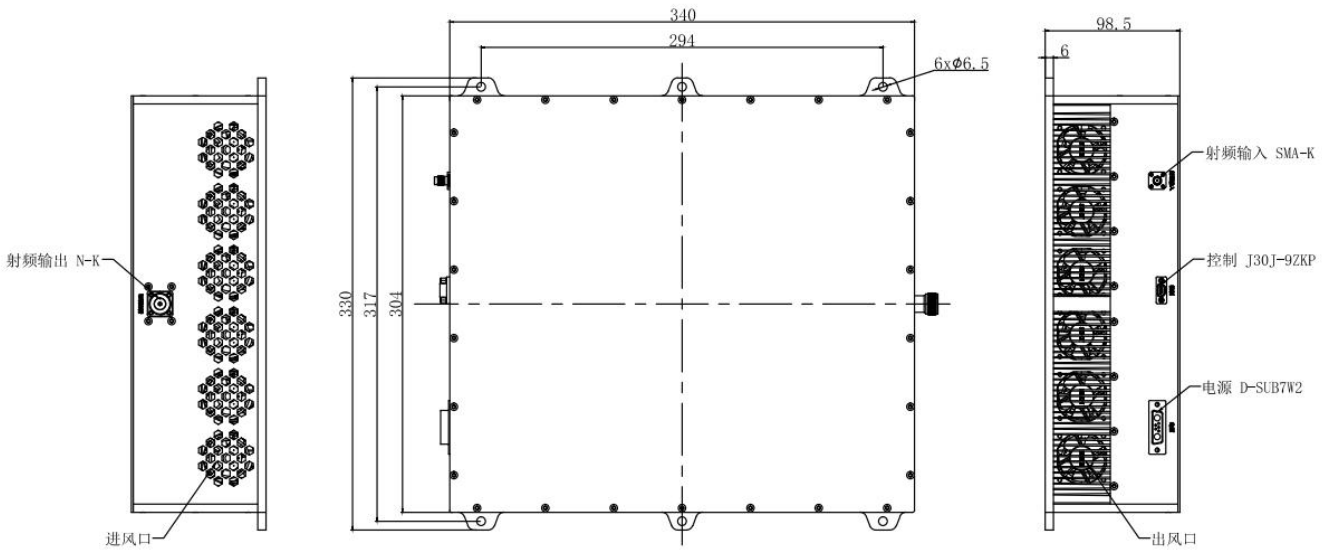
外形尺寸Outline Drawing:

Unit: mm(Inches)



温度环境 Environmental Conditions:

参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	-20		+50	℃
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-50-47-BC	Solid State High Power Amplifier Systems, 2-18GHz,Gain:50dB,Psat:47dBm	Rev.1.0

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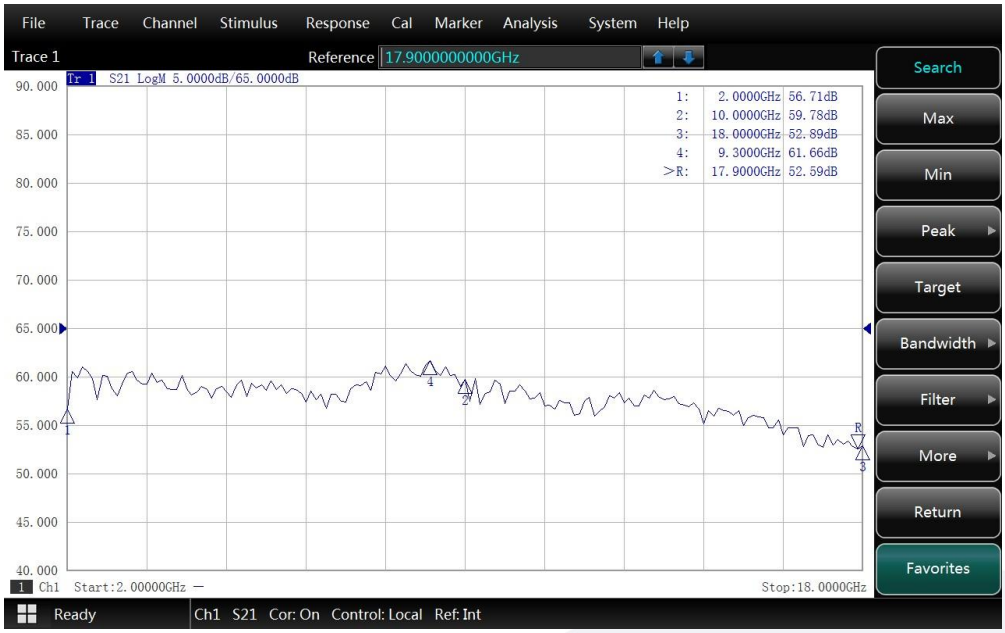
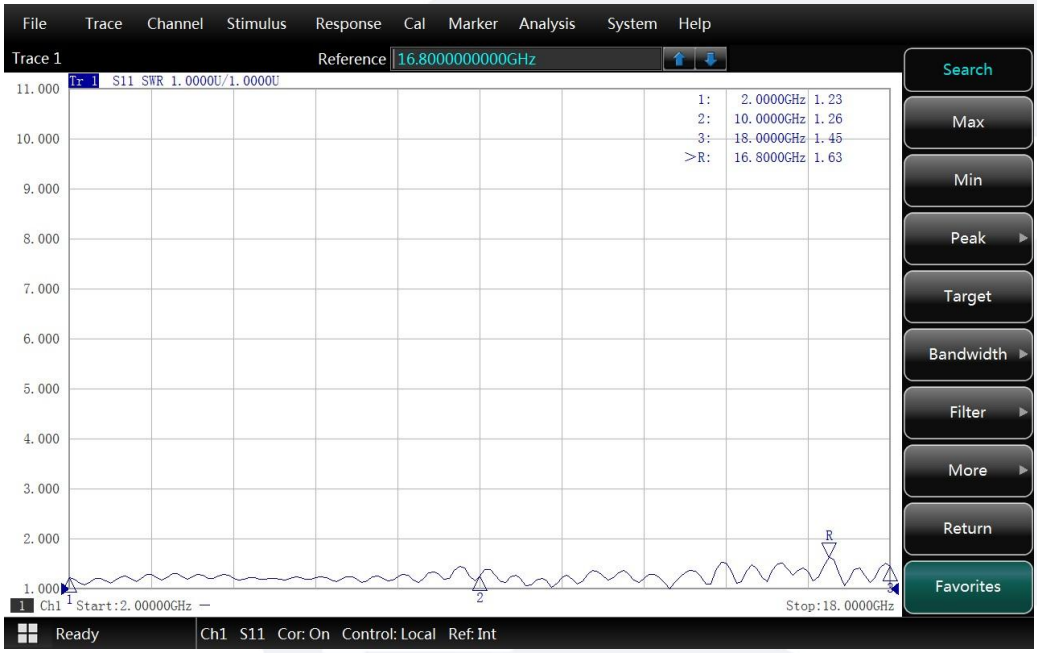
典型曲线 Typical Performance Data:

1.小信号增益：供电VIN=DC/+28V@ATT control = 0dB



2.输入驻波测试（供电VIN=DC/+28V@ATT control = 0dB）



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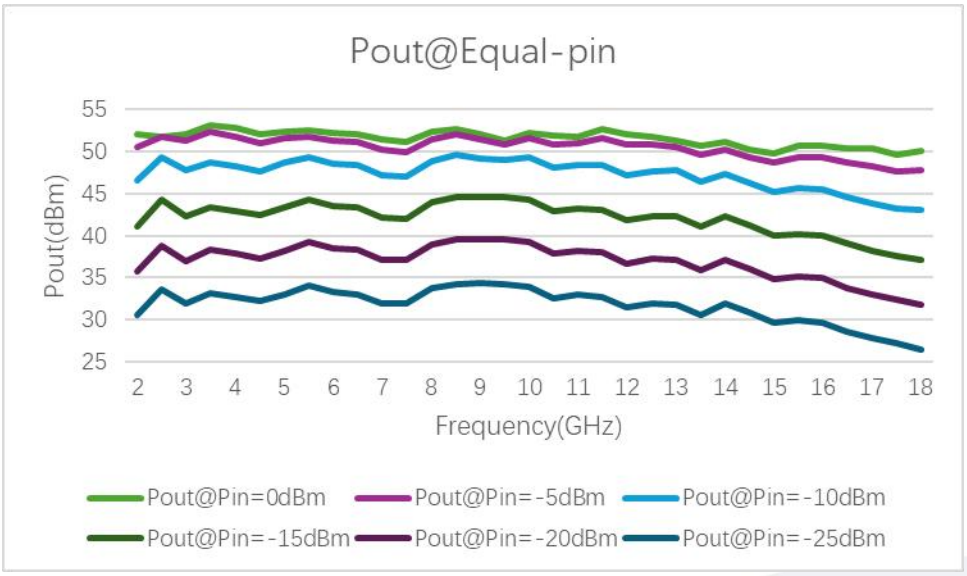
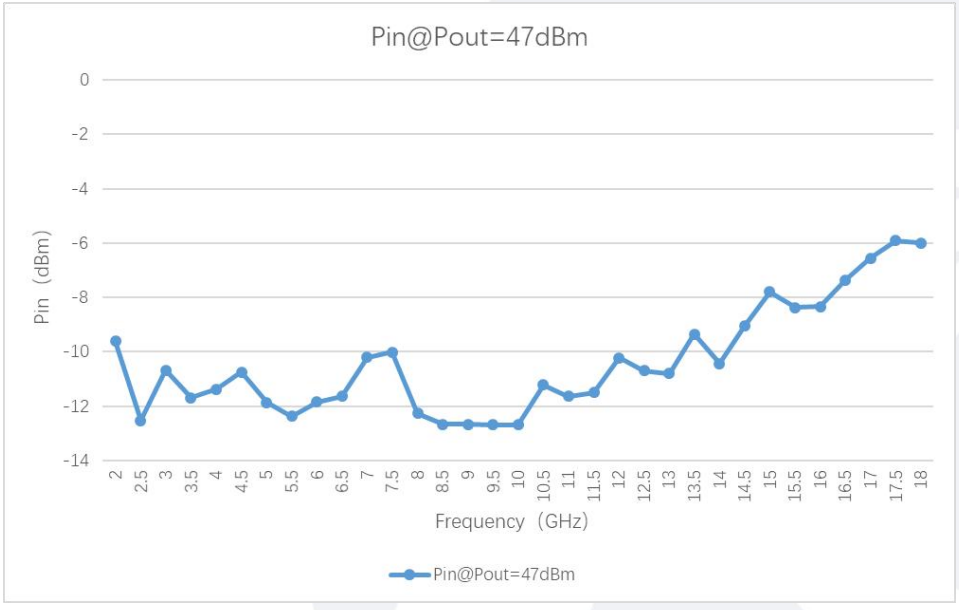
典型曲线 Typical Performance Data:

3.全频段等功率扫描测试（供电VIN=DC/+28V@ATT control = 0dB）



4.全频段额定输出功率扫描测试（供电VIN=DC/+28V@ATT control = 0dB）



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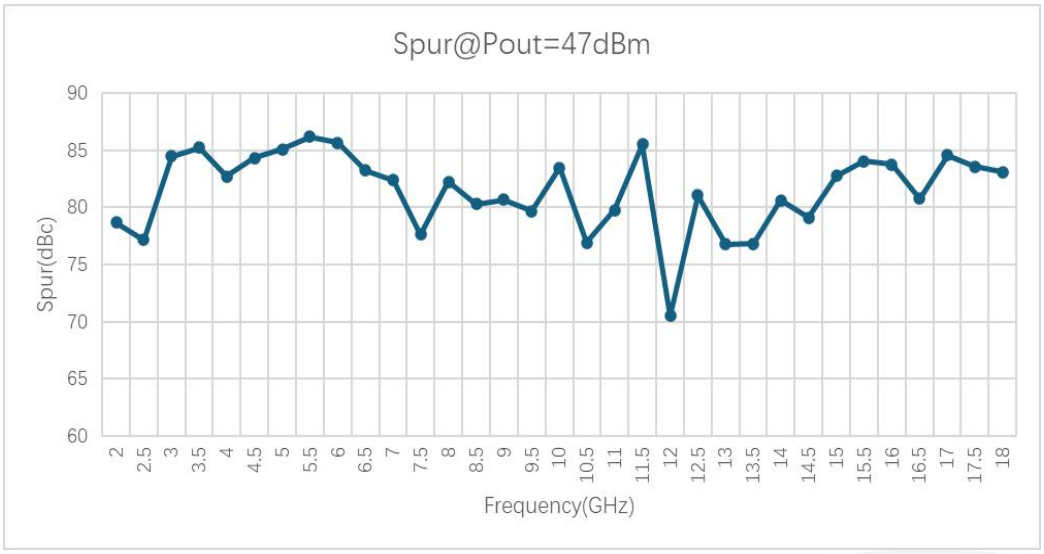
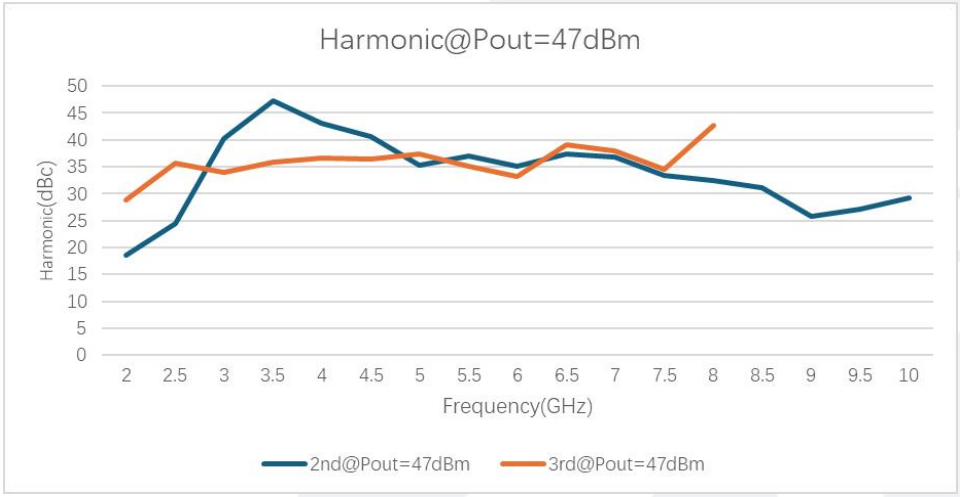
典型曲线 Typical Performance Data:

5.杂散抑制测试（供电VIN=DC/+28V@ATT control = 0dB）



6.谐波抑制测试（供电VIN=DC/+28V@ATT control = 0dB）



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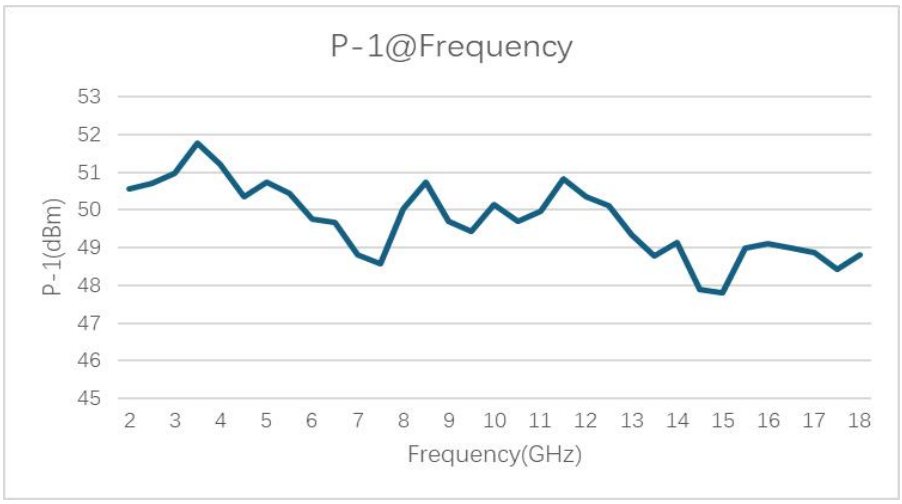
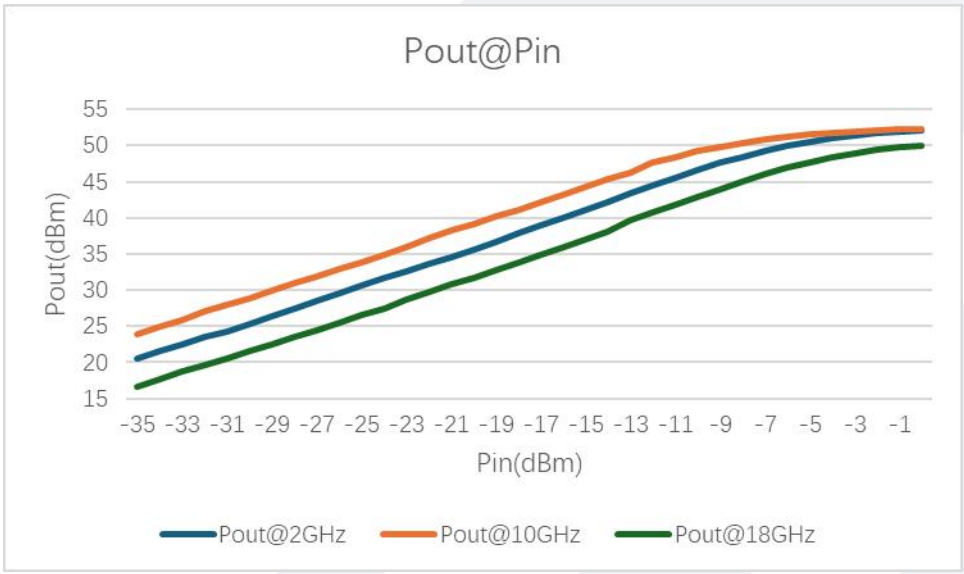
典型曲线 Typical Performance Data:

7.P-1测试（供电VIN=DC/+28V@ATT control = 0dB）



8.增益压缩测试（供电VIN=DC/+28V@ATT control = 0dB）



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典型曲线 Typical Performance Data:

9.功耗（供电VIN=DC/+28V@ATT control = 0dB）