

Model:TLPA2G18G-50-50-HS
Power Amplifier
2-18GHz,Gain:50dB,Psat:50dBm
Feature:

- Ultra Wide Band: 2-18GHz
- Gain: 50 dB Min
- Psat Output Power: 50 dBm 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
小信号增益 Small Signal Gain	50			dB
增益平坦度 Gain Flatness		±4.5	±5	dB
饱和输出功率 Output Psat	50			dBm
杂散 Spurious@Pout=51dBm			-60	dBc
谐波 Harmonics@Pout=51dBm			-10	dBc
输入驻波 Input VSWR			2.0	:1
直流电压 DC Voltage	+28			V DC
功耗 Power Consumption	1800@Max			W
阻抗 Impedance	50			Ohms

机械特性 Mechanical Specifications:

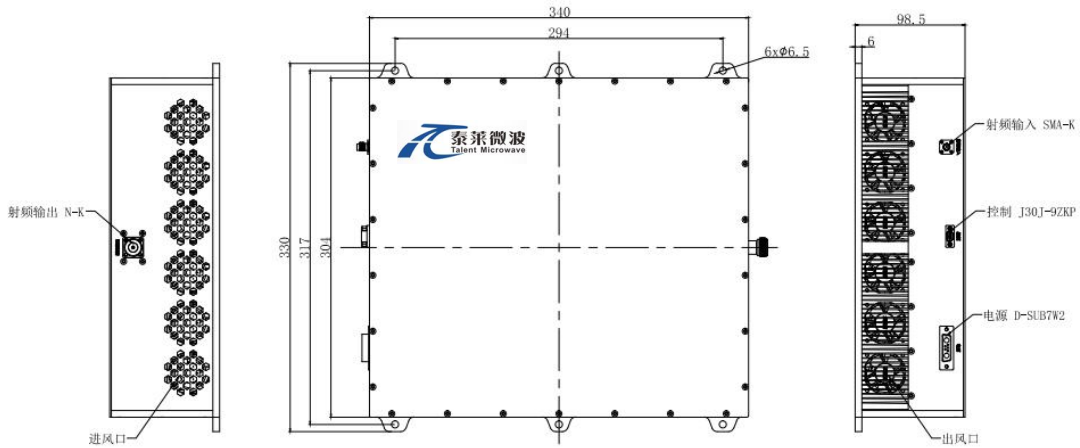
参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	SMA Female/N Female	
直流偏置 DC Bias	SUB-7W2	
尺寸 Size	340*330*98.5	mm
重量 Weight	25	Kg

绝对最大值 Absolute Maximum Ratings:

参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+28V
输入功率 RF Input Power	10dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形尺寸 Outline Drawing:

Unit: mm



SUB-2W2 Define

引脚 Pin	功能 Function
A1	+28V
A2	GND
Pin1-5	NC



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

温度环境 Environmental Conditions:

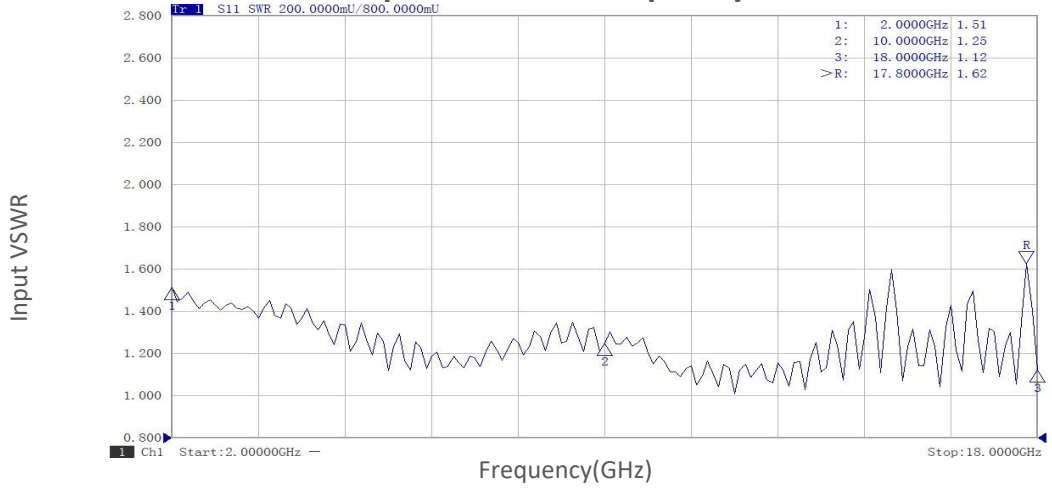
参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-40		+60	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	30,000			feet
震动 Shock / Vibration(MIL-STD-810F)	20g,11ms,saw-tooth			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

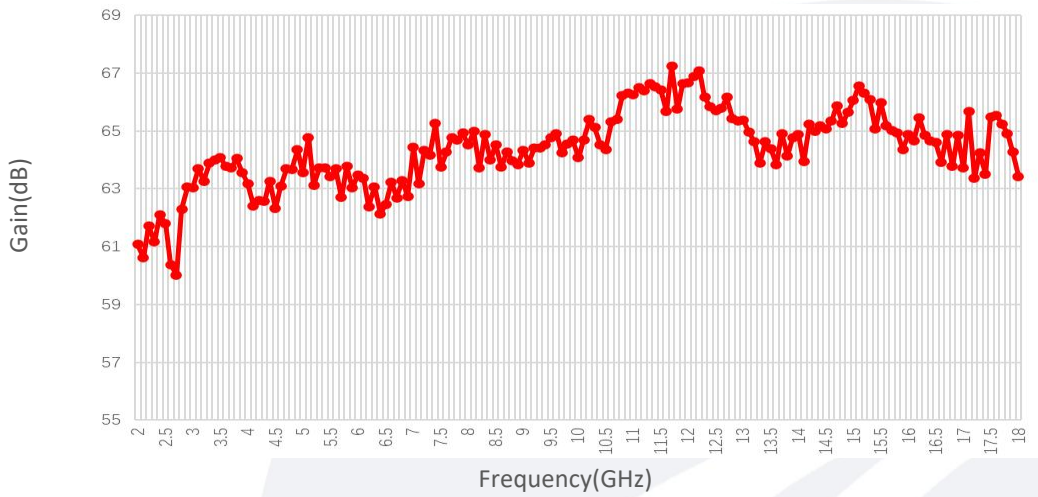
标准型号 Part Number	描述 Description	版本号 Revision
TLPA2G18G-50-50-HS	Power amplifier 2-18GHz, Gain:50dB, Psat:47dBm, +28V DC, Built in Fan Cooling	Rev.1.1

典型曲线 Typical Performance Data:

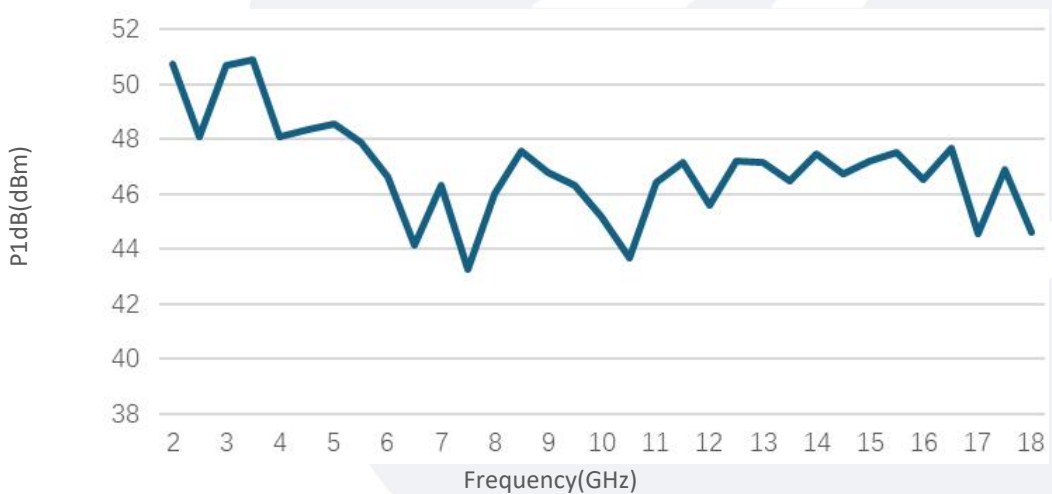
Input VSWR vs Frequency



Small Signal Gain vs Frequency



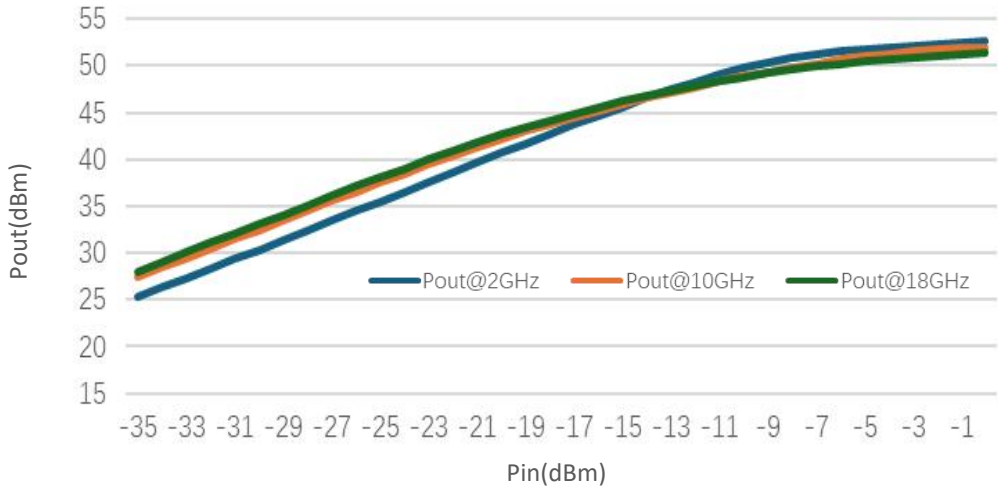
P1dB vs Frequency



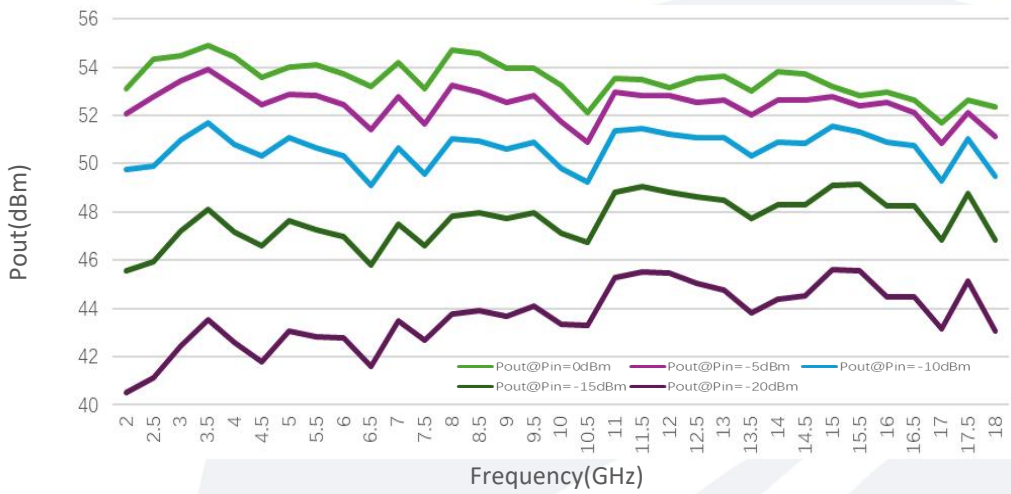
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

典型曲线 Typical Performance Data:

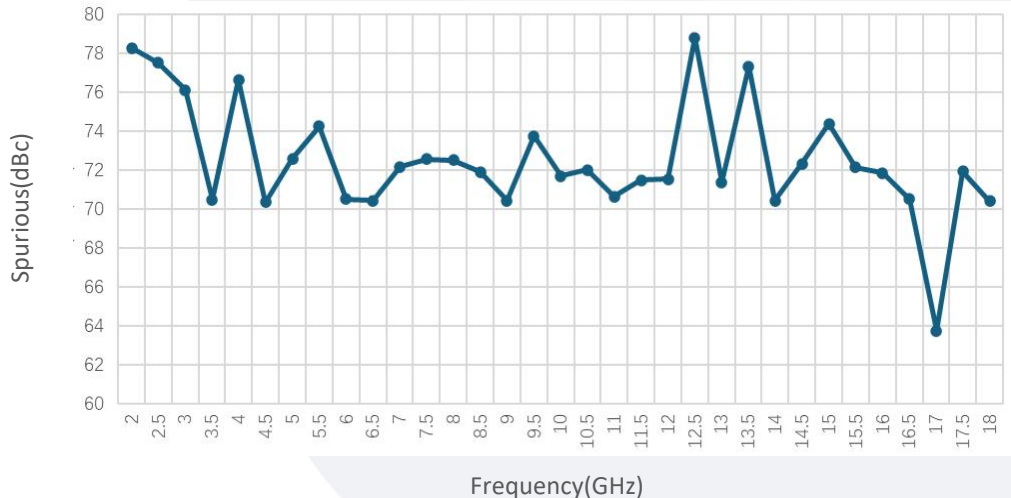
Pout@Pin



Pout@Equal_Pin

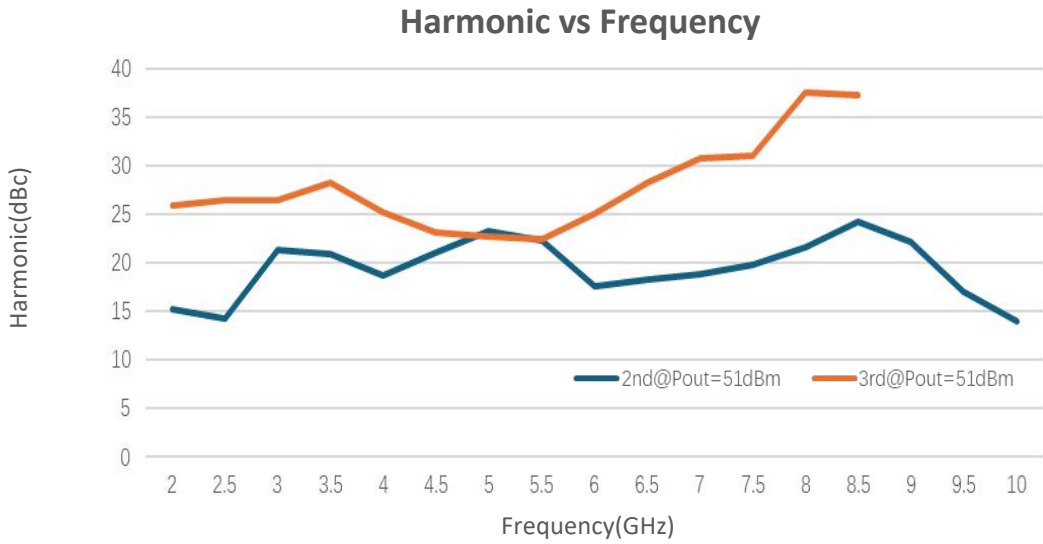


Spurious vs Frequency



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