

Model:TLPA0.3G2G-50-50
**Solid State High Power Amplifier
 0.3-2GHz,Gain:50dB,Psat:50dBm**
Feature:

- Ultra Wide Band: 0.3-2GHz
- Gain: 50dB
- Psat Output Power: 50dBm
- 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	0.3-2			GHz
功率增益 Power Gain	50			dB
饱和输出功率 Output Psat	50			dBm
饱和输出功率平坦度 Output Psat Flatness			±1.5	dB
输入功率Input Power		0	10	dBm
杂散Spurious@Pout=50dBm	60			dBc
谐波 Harmonics@Pout=50dBm	10			dBc
输入驻波 Input VSWR			2.0	:1
直流电压 DC Voltage		+40		V DC
功耗 Power Consumption			850	W
阻抗 Impedance	50			Ohms

机械特性 Mechanical :

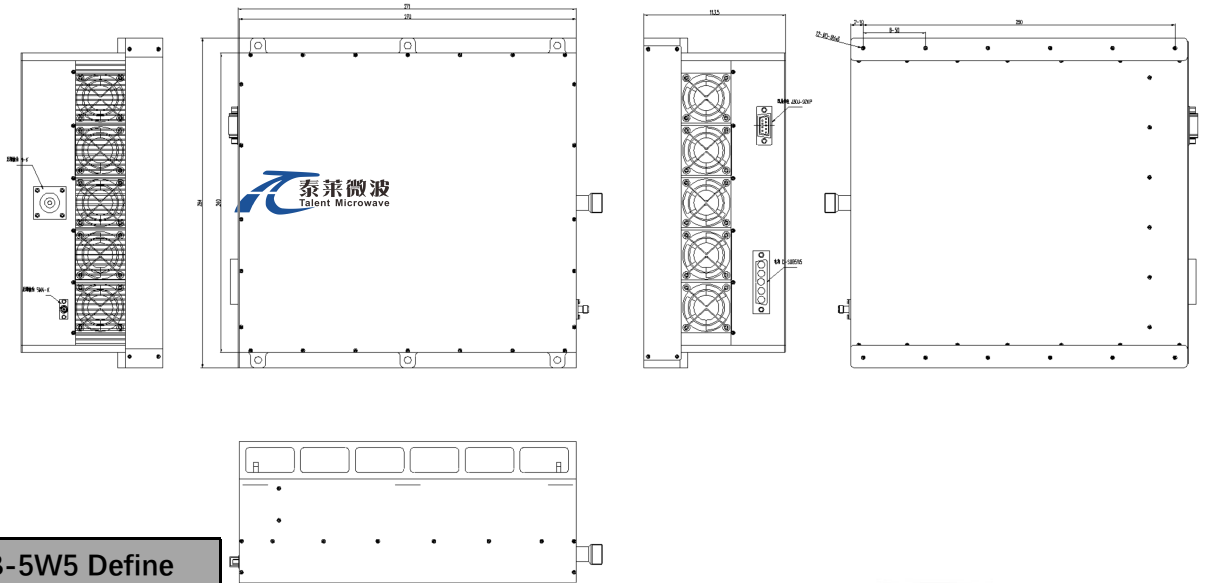
参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	SMA Female/N Female	
DC加电接口 DC Power Interface	D-SUB5W5	
通信接口 Communication Interfaces	J30J-21ZKP	
尺寸 Size	271*264*113.5	mm
重量 Weight	15	Kg

主要功能 Key Function:

参数Parameter	指标 Value
内置保护 Built-in protections	Over TEM,over voltage, over current,input over power,output mismatch protection.具备过温保护、输入过功率保护、过压保护、过流保护、输出失配保护;
内置监测 Built-in Monitor	Output Power, Temperature, Voltage, Current, 输出功率、温度、供电电压、供电电流
内置Built-in control	关闭 Shutdown

外形尺寸Outline Drawing:

Unit: mm



SUB-5W5 Define	
引脚 Pin #	功能 Function
A1-A2	+28V
A3-A5	GND



温度环境 Environmental Conditions:

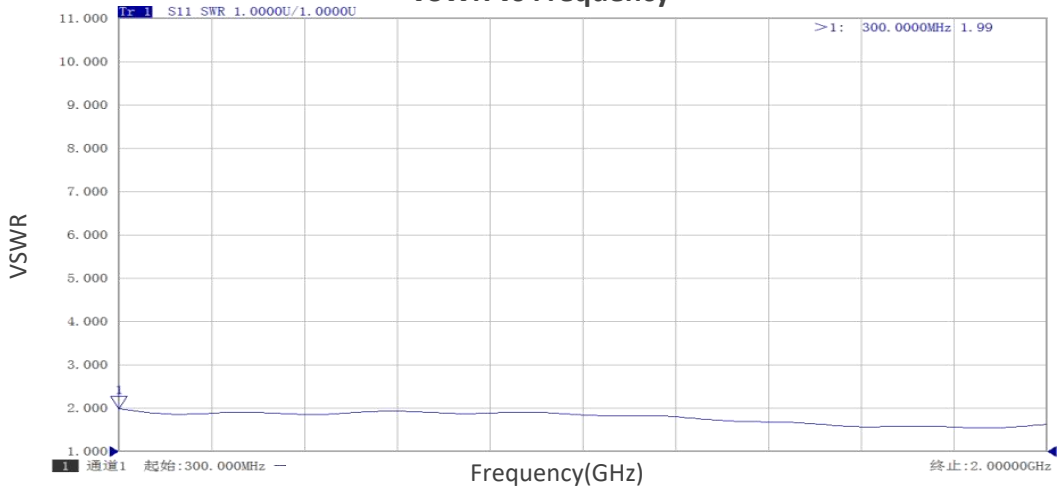
参数Parameter	Min.	Typ.	Max.	单位Units
操作温度 Operating Temperature	-40		+60	°C
存储温度 Non-operating Temperature	-45		+65	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

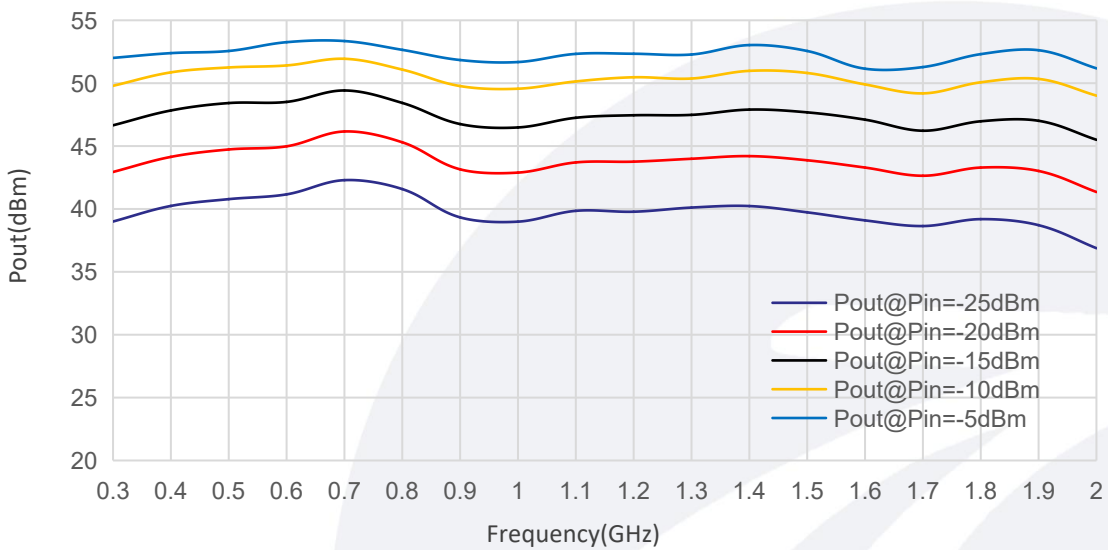
标准型号 Part Number	描述 Description	版本号Revision
TLPA0.3G2G-50-50	Solid State High Power Amplifier,0.3-2GHz,Gain:50dB,Psat:50dBm,40V DC Protection:Over TEM,over voltage, over current,over reflection and Fault location protection.	Rev.1.1

典型曲线 Typical Performance Data:

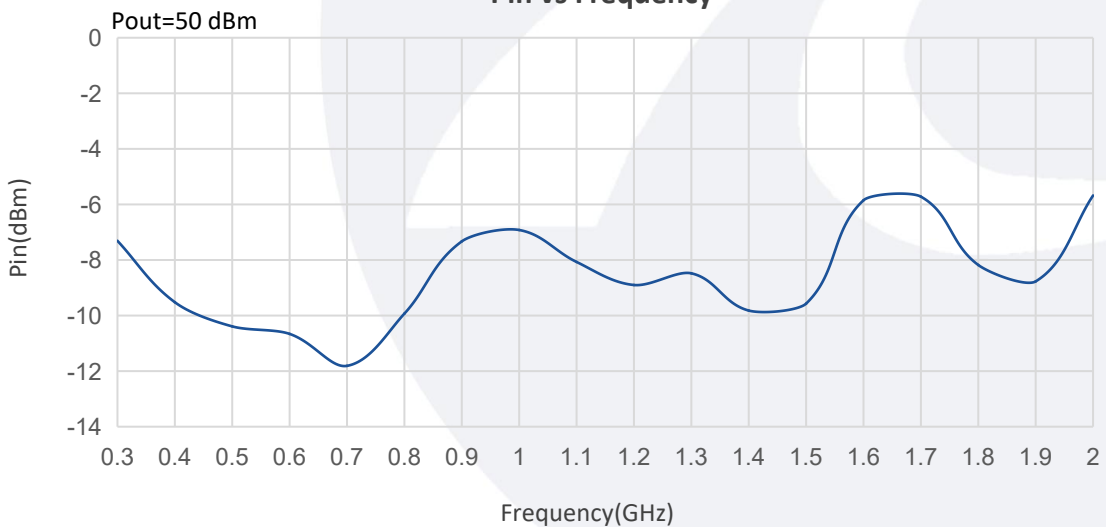
VSWR vs Frequency



Pout@Equal-pin vs Frequency

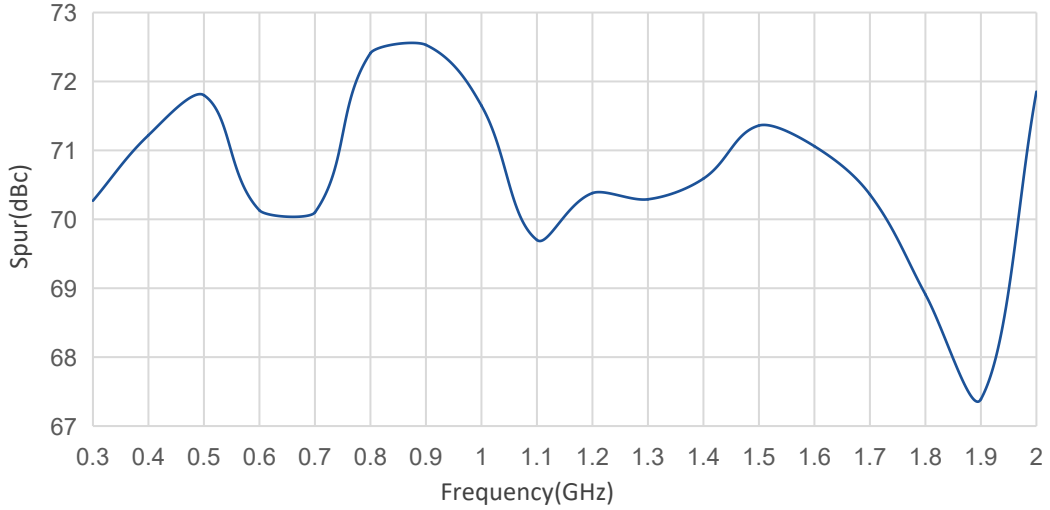


Pin vs Frequency

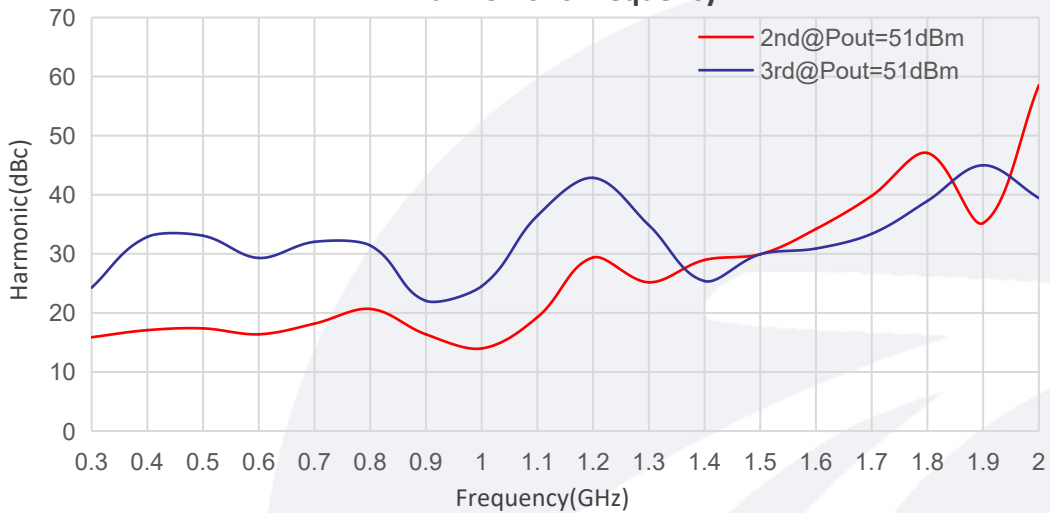


典型曲线 Typical Performance Data:

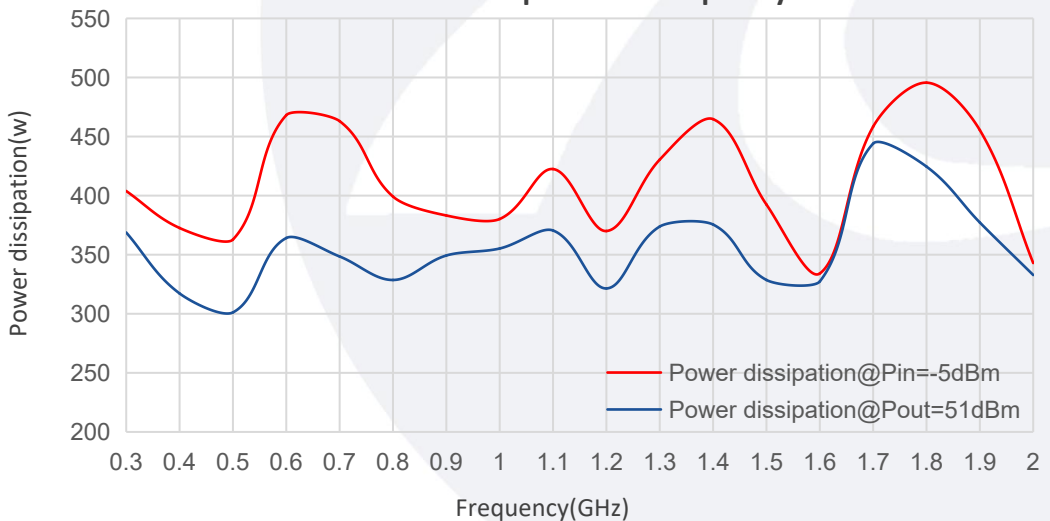
Spurious vs Frequency



Harmonic vs Frequency

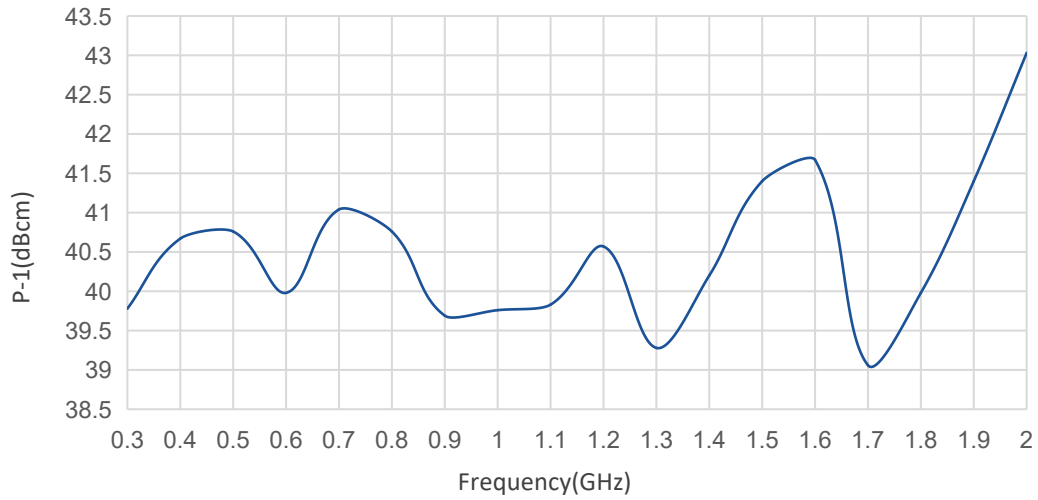


Power dissipation vs Frequency



典型曲线 Typical Performance Data:

OutPut P1dB vs Frequency



Pout vs Pin

