

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

- Ultra Wide Band: 0.3-2GHz
- Gain:50dB Min
- Psat Output Power:50dBm 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	0.3-2			GHz
增益 Gain	50			dB
增益平坦度 Gain Flatness			±1.5	dB
饱和输出功率 Output Psat	50			dBm
杂散 Spurious@Pout=50dBm			-60	dBc
谐波 Harmonics@Pout=50dBm			-10	dBc
输入驻波 Input VSWR			2	: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 Specifications:**

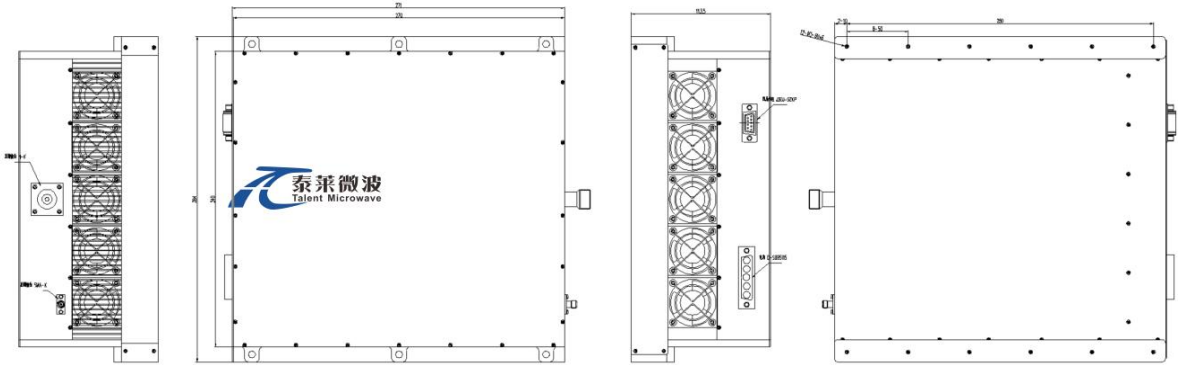
参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	SMA Female/N Female	
DC加电接口 DC Power Interface	D-SUB5W5	
尺寸 Size	271*264*113.5	mm
重量 Weight	15	Kg

**主要功能 Key Features:**

参数 Parameter	特点 Advantages
内置监测 Built-in protections	Output Power, Temperature, Voltage, Current
内置保护功能 Protection functions	Over TEM, Over voltage, Over current protection, Over VSWR
内置控制 Built-in Control	Shutdown

外形尺寸 Outline Drawing:

Unit: mm



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

**\*\*\*Heat Sink Required During Operation**



温度环境 Environmental Conditions:

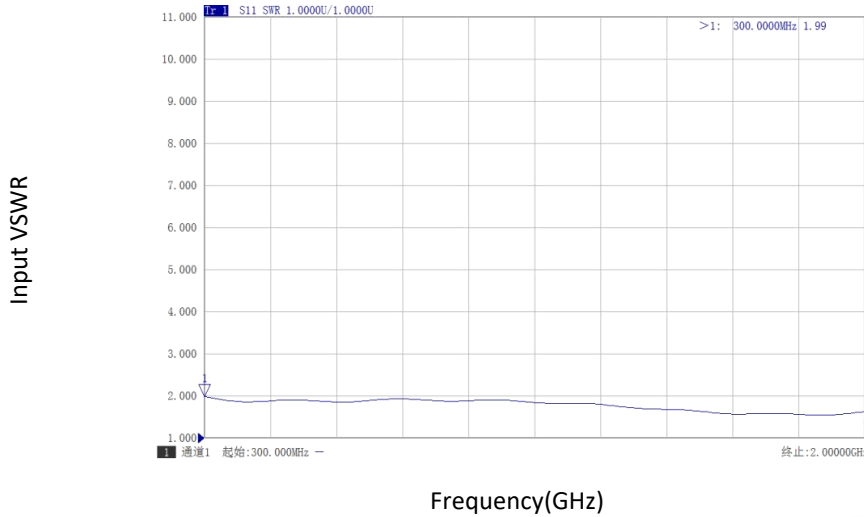
参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-40		+60	°C
存储温度 Non-operating Temperature	-45		+65	°C
相对湿度 Relative humidity		95		%
海拔 Altitude		50,000		feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half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

订货信息 Ordering Information:

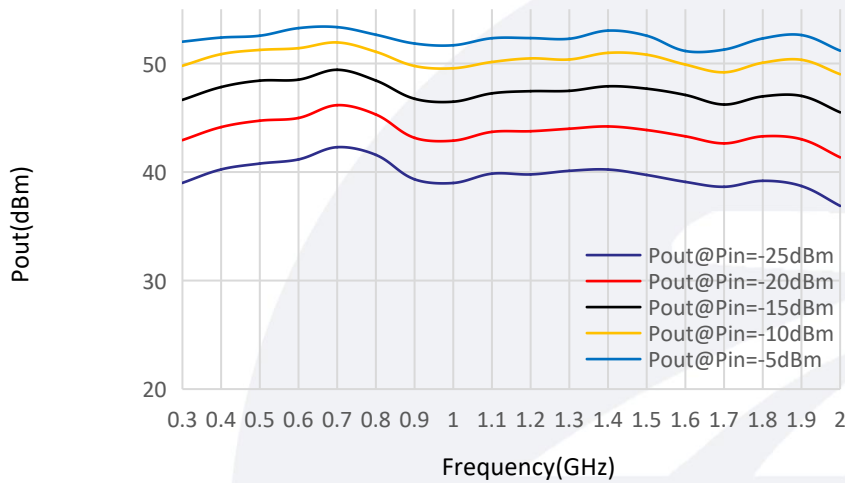
标准型号 Part Number	描述 Description	版本号 Revision
TLPA0.3G2G-50-50	Power amplifier 0.3-2GHz, Gain:50dB, Psat:50dBm, +40V DC, Protection: Over TEM, over voltage, over current, over reflection and Fault location Protection.	Rev.1.1

典型曲线 Typical Performance Data:

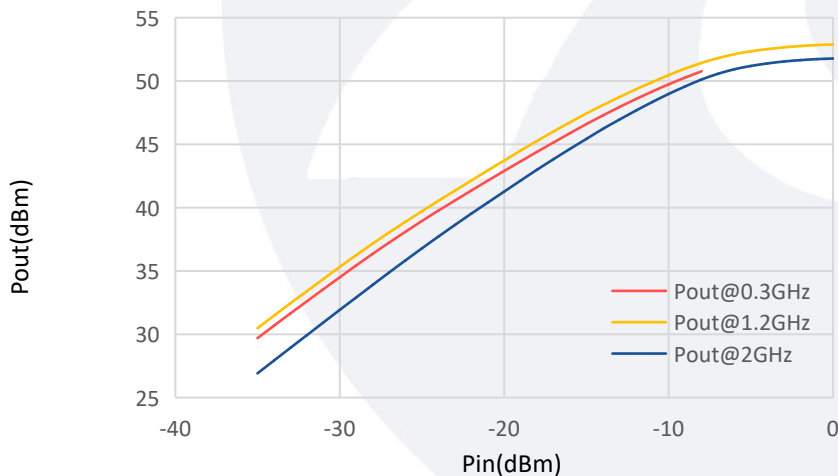
**Input VSWR vs Frequency**



**Pout@Equal\_Pin**

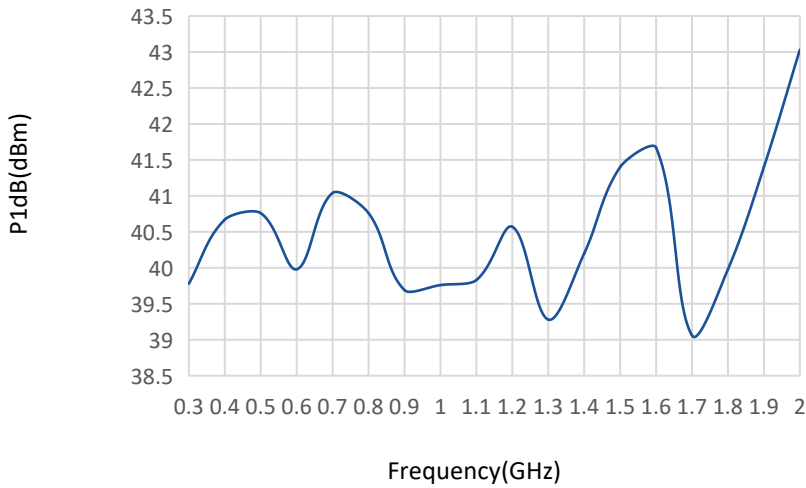


**Pout@Pin**

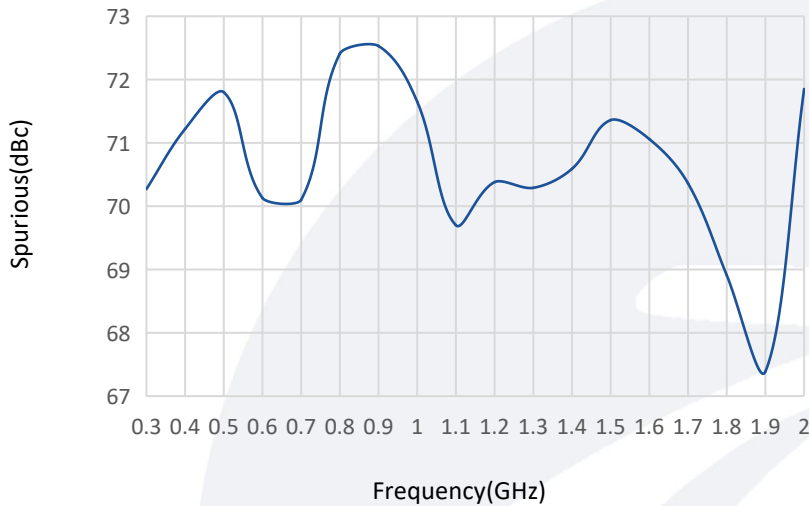


典型曲线 Typical Performance Data:

**P1dB vs Frequency**



**Spurious VS Frequency**



**Harmonics VS Frequency**

