泰莱微波
Talent Microwave

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

Model:TLPA0.5G6G-50-47-BC

Solid State High Power Amplifier Systems 0.5-6GHz,Gain:50dB,Psat:47 dBm,220V AC

Feature:

- Wide Band: 0.5-6GHz
- Gain: 50dB Min
- Psat Output Power:47dBm Min
- Protection:Over TEM,over voltage, over current ,over VSWR protection.
- 50 Ohm Matched Input / Output

电气特性 Electrical Specifications:

参数Parameter	代码 Symbo	Min	Typ	Max	单位Units
频率范围 Frequency range	BW		0.5-6		GHz
增益 Gain	GP	50			dB
增益平坦度 Gain flatness	ΔGL		±3.5		dB
饱和输出功率 Output Psat	Psat	47			dBm
增益可调范围 Gain adjust range	ΔGR	20			dB
增益可调步进 Gain adjust step	ΔGS		0.5		dB
杂散 Spurious	Spur			-60	dBc
谐波 Harmonics	HAM		-10		dBc
输入驻波 Input VSWR	VSWRin			2.0	:1
交流电压 AC Voltage	Vac		220		V AC
阻抗 Impedance	I/O-IMP		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	N Female	
AC加电控制 AC Power Interface	Air switch	
尺寸 Size	19 Inch 4U	
重量 Weight	30	Kg

绝对最大值 Absolute Maximum Ratings:

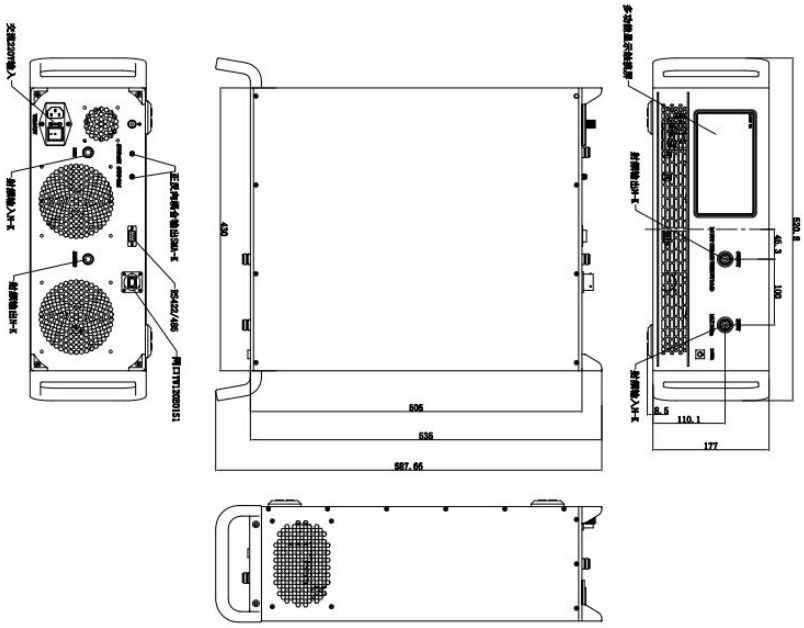
参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	260V AC
输入功率 RF Input Power	10 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

泰莱微波
Talent Microwave

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

外形尺寸 Outline Drawing:

Unit: mm



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

主要功能 Kye Features:

参数 Parameter	特点 Advantages
控制和监控 Remote Control	Ethernet RJ-45 TCP/IP
监控功能 Monitoring functions	1,Forward Power 2,Temp Fault
内置保护功能 Protection functions	1,Over TEM 2,Over voltage 3,Over current protection 4,Over VSWR
控制功能 Control functions	1,Gain/power setting with 31.5dB range 2,ALC On/Off
冷却系统 Cooling system	Built in Cooling system,forced air cooling

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

温度环境 Environmental Conditions:

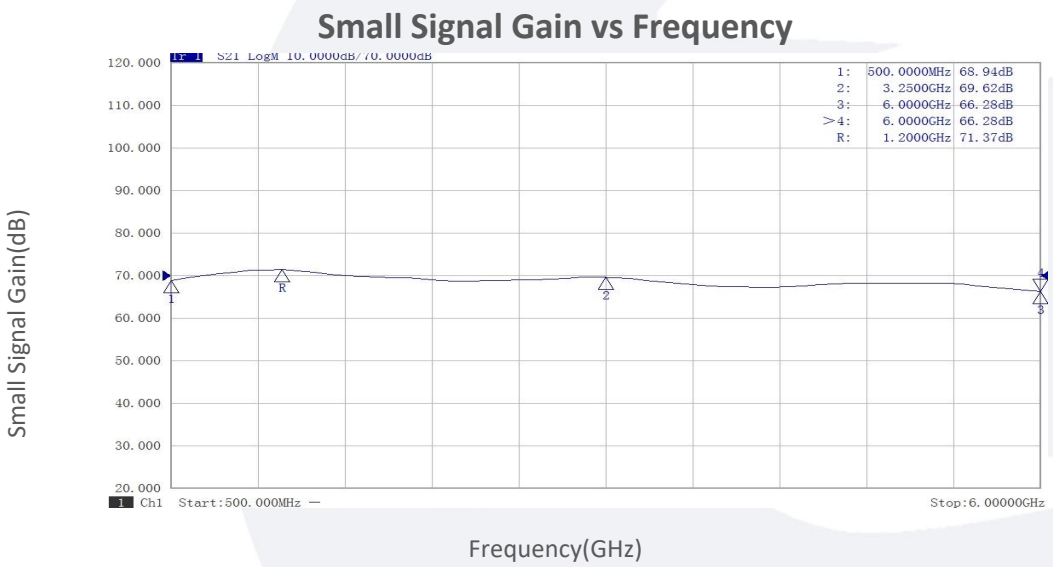
参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature*	-20		+50	℃
存储温度 Non-operating Temperature*	-30		+60	℃
相对湿度 Relative humidity		95		%
海拔 Altitude	10000			feet
震动 Shock / Vibration(MIL-STD- 810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

*Note: For a wider temperature range, please consult the manufacturer.

订货信息 Ordering Information:

标准型号 Part Number	描述 Description	版本号 Revision
TLPA0.5G6G-50-47-BC	Solid State High Power Amplifier Systems 0.5-6GHz,Gain:50dB,Psat:47 dBm,220V AC,Built in Fan Cooling	Rev.1.0

典型曲线 Typical Performance Data:

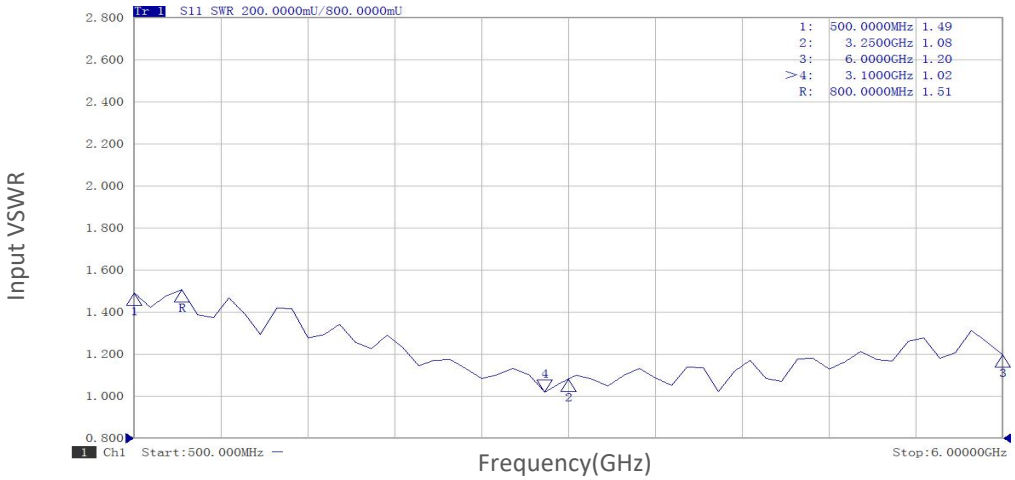


Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

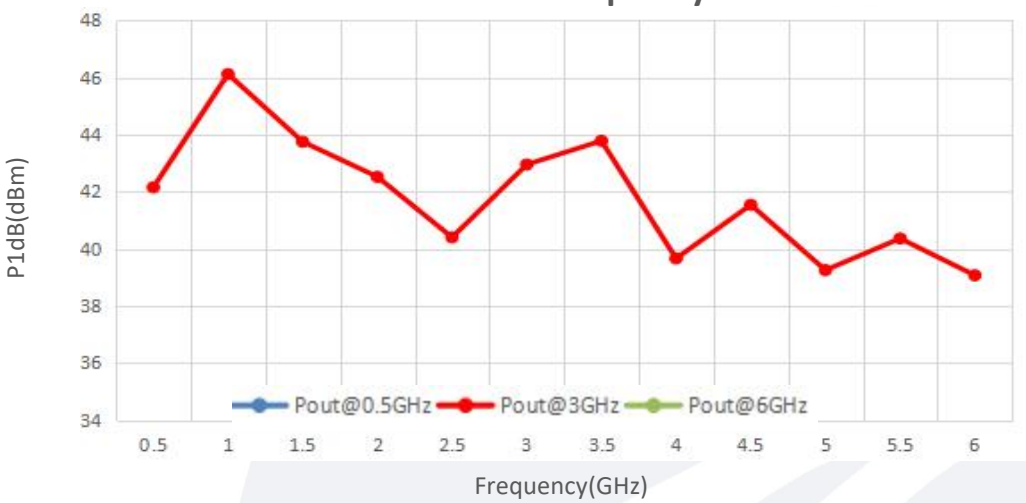
Suzhou Talent Microwave,Inc
+86-0512-62657975
sales@talentmw.com
www.talentmw.com

典型曲线 Typical Performance Data:

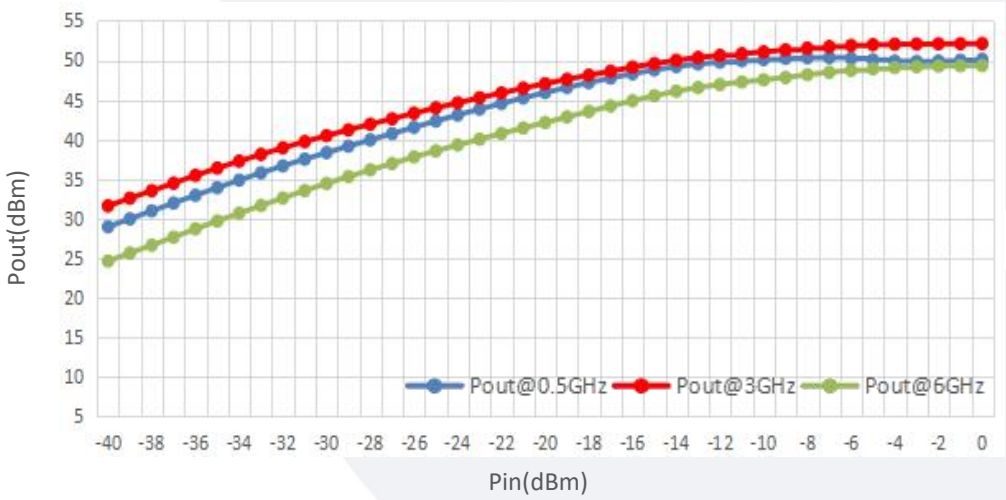
Input VSWR vs Frequency



P1dB vs Frequency



Pout@Pin



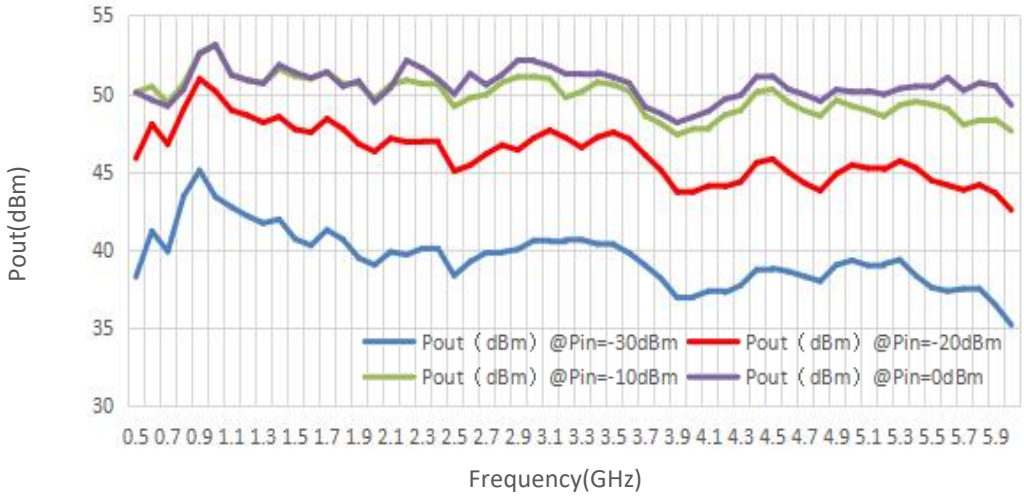
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

泰莱微波
Talent Microwave

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

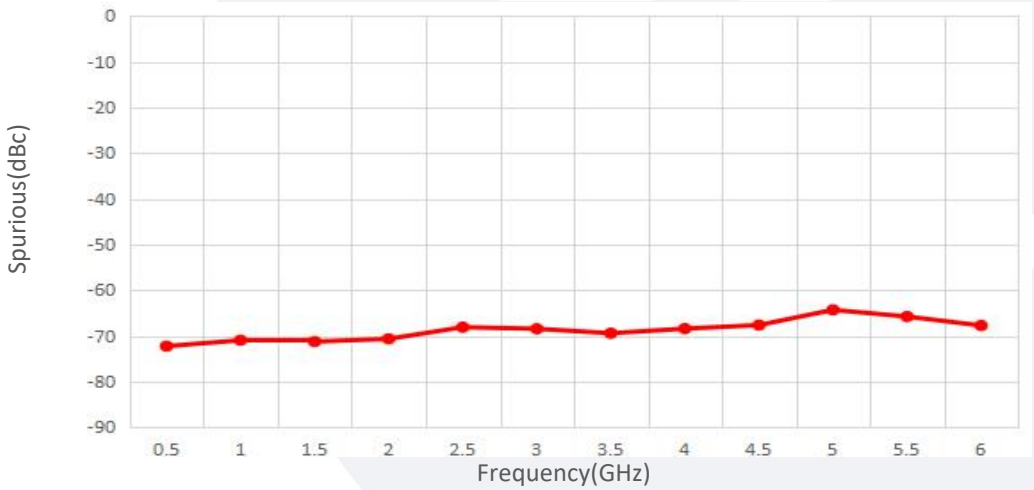
典型曲线 Typical Performance Data:

Pout@Equal_Pin



Harmonics vs Frequency

Spurious 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.