

Model:TLPA2G6G-50-50-BC

Solid State High Power Amplifier Systems 2-6GHz,Gain:50dB,Psat:50dBm,+220V AC

Feature:

- Wide Band: 2-6GHz
- Gain: 50dB Min
- Psat Output Power:50dBm 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	2-6			GHz
增益 Gain	GP	50			dB
增益平坦度 Gain flatness	Δ GL		± 4.5		dB
饱和输出功率 Output Psat	Psat	50			dBm
线性输出功率 Output P1dB	P1dB		45		dBm
杂散 Spurious@Pout=50dBm	Spur			-60	dBc
谐波 Harmonics@Pout=50dBm	HAM			-10	dBc
输入驻波 Input VSWR	VSWRin			2.0	:1
交流电压 AC Voltage	Vac	220			V AC
交流功耗 AC Power Consumption	Pdiss	1500@Max			Watts
阻抗 Impedance	I/O-IMP	50			Ohms

机械特性 Mechanical Specifications:

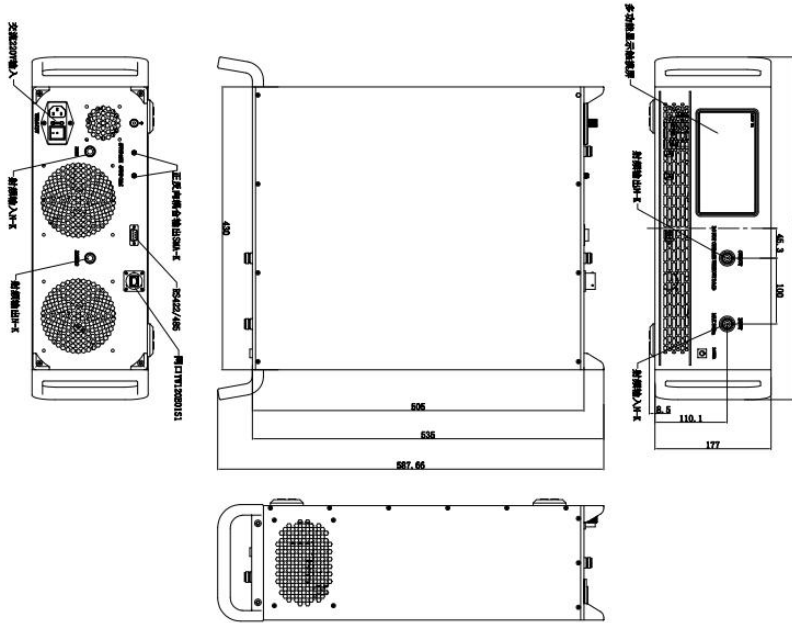
参数 Parameter	指标 Value	单位Units
输入/输出接口 Input/Output Connector	N Female/SMA Female	
监控和控制接口 Monitor and control interface	RS422 / Ethernet	
尺寸 Size	19 Inch*4U*550 depth	mm
重量 Weight	25	Kg

绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
输入功率 RF Input Power	10 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形尺寸 Outline Drawing:

Unit: mm



主要功能 Key Features:



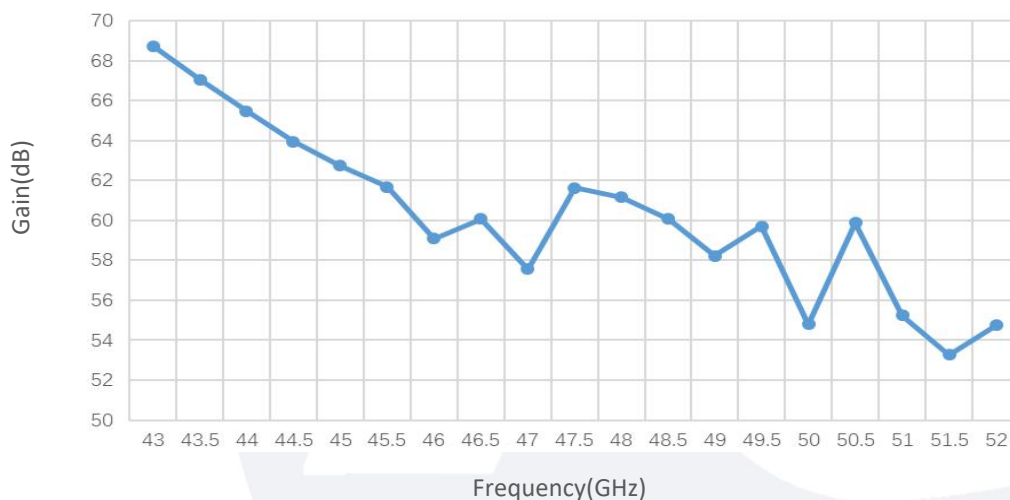
参数 Parameter	特点 Advantages
监控和控制 Remote control	RS422/Ethernet
内置保护功能 Protection functions	1,Over TEM 2,Over voltage 3,Over current protection 4,Over VSWR
控制功能 Control functions	1,Power setting On/Off 2,ALC
冷却系统 Cooling system	Built in Cooling system,forced air cooling

温度环境 Environmental Conditions:

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-20		+50	°C
存储温度 Non-operating Temperature	-45		+65	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	15000			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:

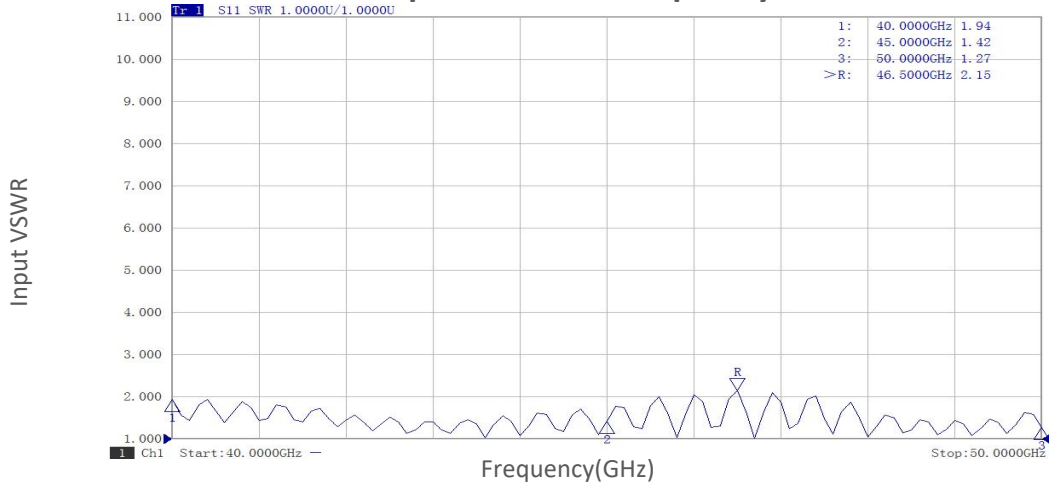
标准型号 Part Number	描述 Description	版本号 Revision
TLPA2G6G-50-50-BC	Solid State High Power Amplifier Systems 2-6GHz, Gain:50dB, Psat:50dBm, 220V AC, Built in Fan Cooling	Rev.1.0

典型曲线 Typical Performance Data:
Small Signal Gain vs Frequency


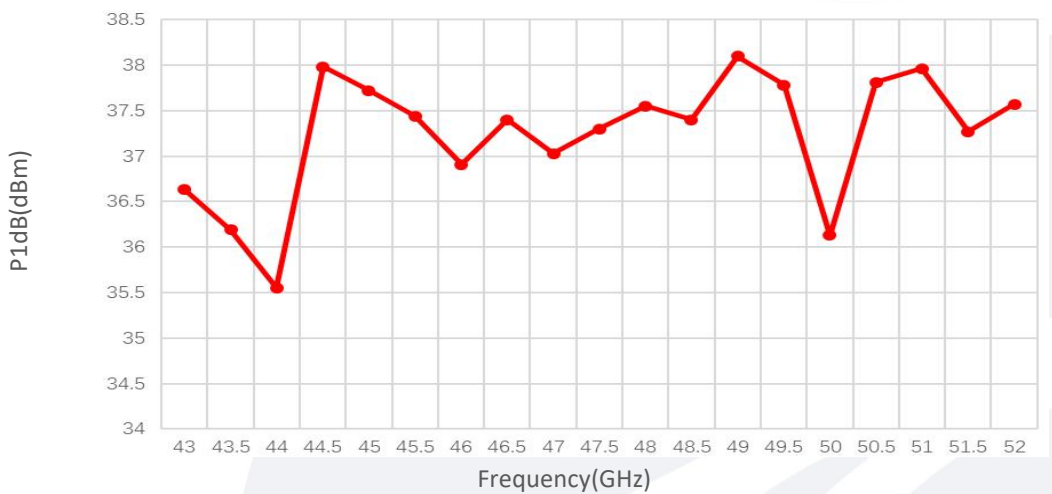
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

典型曲线 Typical Performance Data:

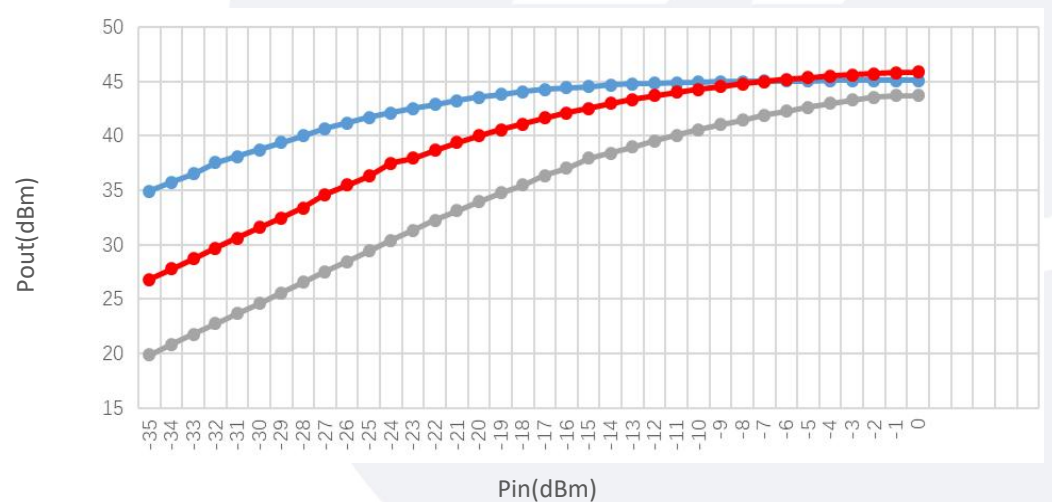
Input VSWR vs Frequency



P1dB vs Frequency



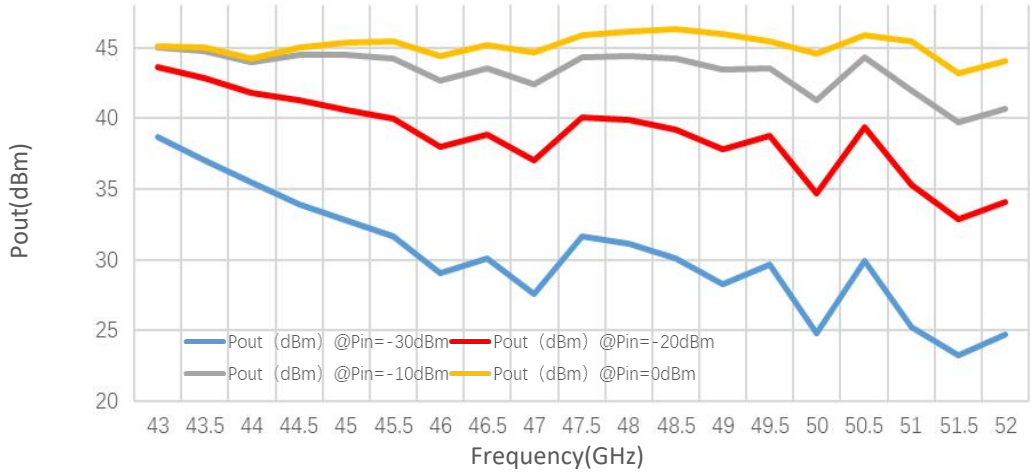
Pout@Pin



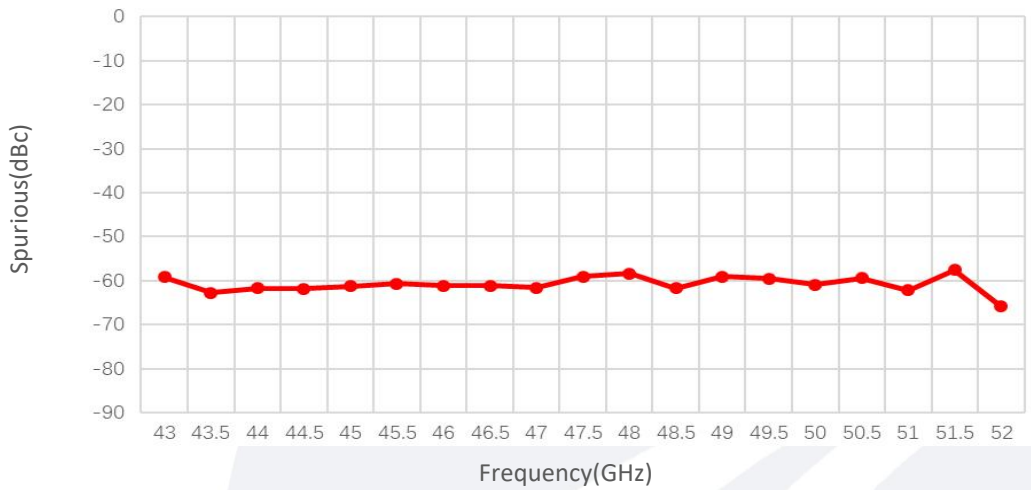
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

典型曲线 Typical Performance Data:

Pout@Equal_Pin



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.