

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: 47dB 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 Symbol	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	Δ GL		± 3.5		dB
饱和输出功率 Output Psat	Psat	47			dBm
线性输出功率 Output P1dB	P1dB	39			dBm
杂散 Spurious	Spur			-50	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
功耗 Power Consumption	Pdiss	1100@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/NFemale	
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
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
控制功能 Control functions	Power setting On/Off
内置保护功能 Protection functions	1,Over TEM 2,Over voltage 3,Over current protection 4,Over VSWR
控制 Control	RS422/Ethernet
冷却系统 Cooling system	Built in Cooling system,forced air cooling

温度环境 Environmental Conditions:

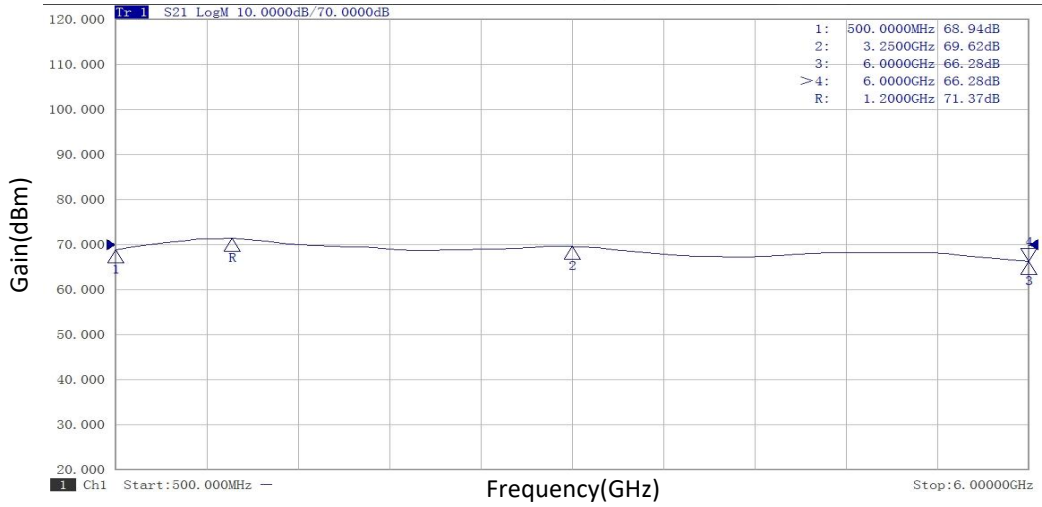
参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-20		+50	°C
存储温度 Non-operating Temperature	-45		+65	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50000			feet
震动 Shock / Vibration(MIL-STD- 810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

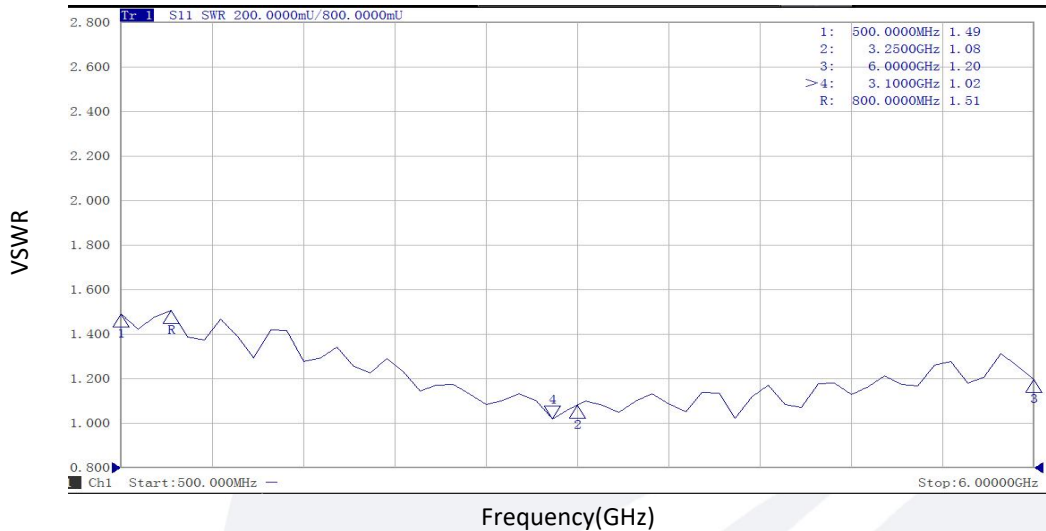
标准型号 Part Number	描述 Description	版本号 Revision
TLPA0.5G6G-50-47-BC	Solid State High Power Amplifier Systems 0.5-6GHz, Gain:50dB, Psat:47 dBm, 220V AC, Built in Fan Cooling	Rev.1.0

典型曲线 Typical Performance Data:

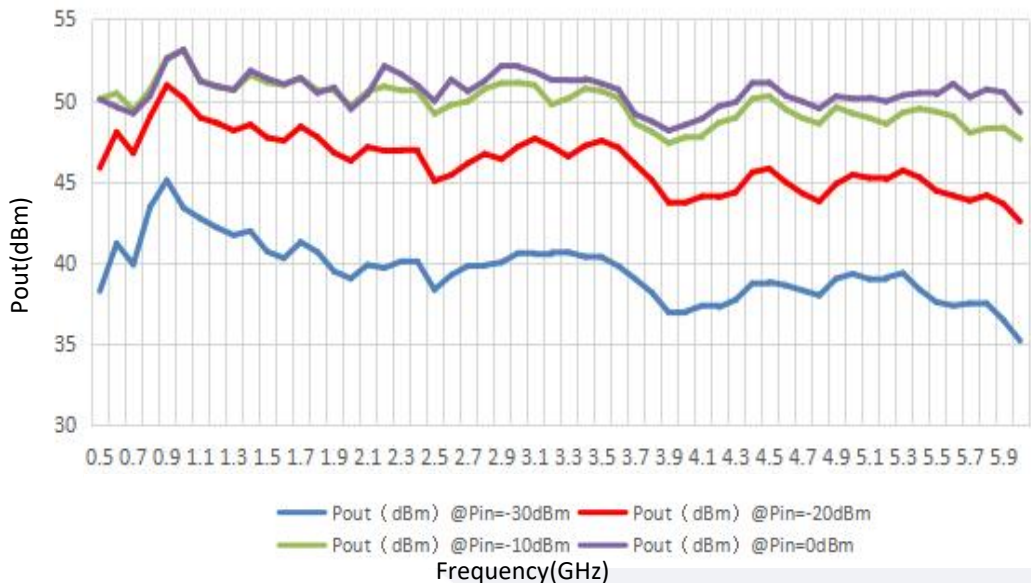
Gain vs Frequency



Input VSWR vs Frequency

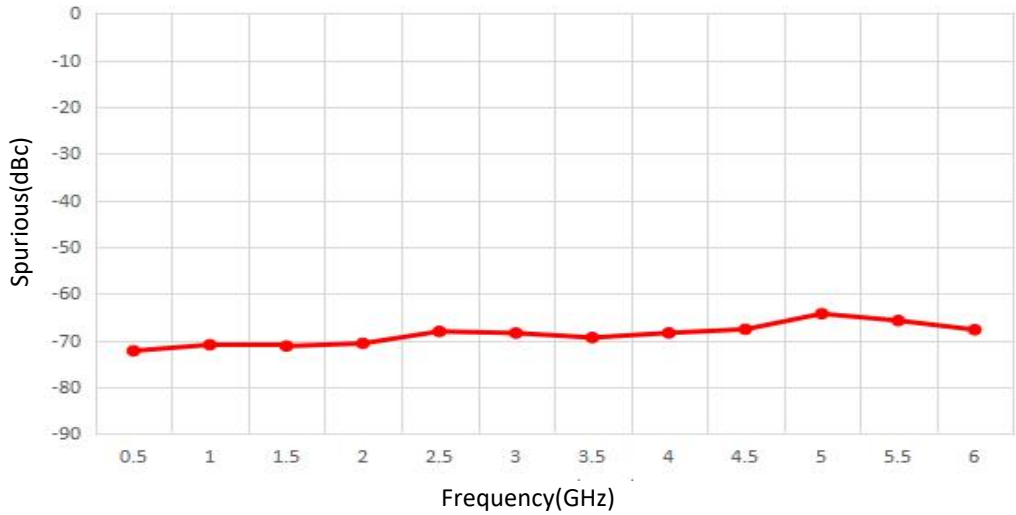


Pout@Equal_Pin

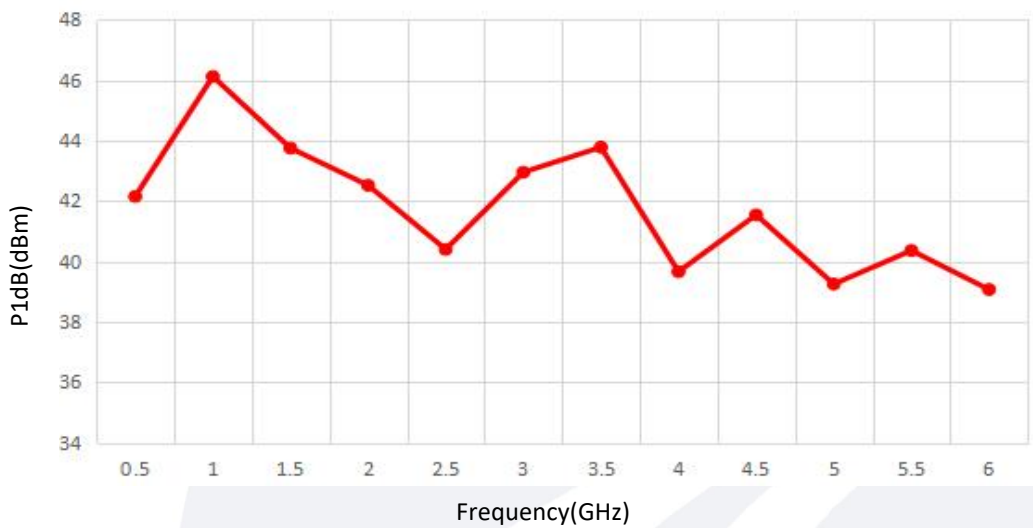


典型曲线 Typical Performance Data:

Spurious vs Frequency



P1dB vs Frequency



Harmonics vs Frequency

