

Model:TLPA0.7G6G-53-53-BC

Solid State High Power Amplifier Systems 0.7-6GHz,Gain:53dB,Psat:53dBm,220V AC

Feature:

- Wide Band: 0.7-6GHz
- Gain: 53dB Min
- Psat Output Power:53dBm 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	0.7-6			GHz
小信号增益 Small Signal Gain	GP	53			dB
增益平坦度 Gain flatness	ΔGL		±3.5		dB
饱和输出功率 Output Psat	Psat	53	54		dBm
杂散 Spurious@Pout=54dBm	Spur			-60	dBc
谐波 Harmonics@Pout=54dBm	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	3600@Max			Watts
阻抗 Impedance	I/O-IMP	50			Ohms

机械特性 Mechanical Specifications:

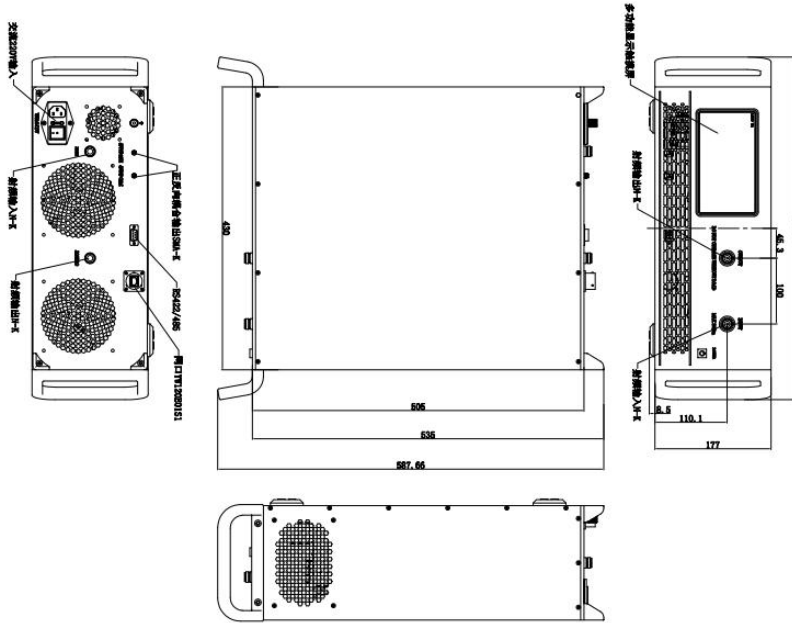
参数 Parameter	指标 Value	单位Units
输入/输出接口 Input/Output Connector	N Female/N Female	
网口通信 Network port Communication	RJ-45	
尺寸 Size	5U*550mm depth	
重量 Weight	40	Kg

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:



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

参数 Parameter	特点 Advantages
控制 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 automatic level control
冷却系统 Cooling system	Built in Cooling system,forced air cooling

温度环境 Environmental Conditions:

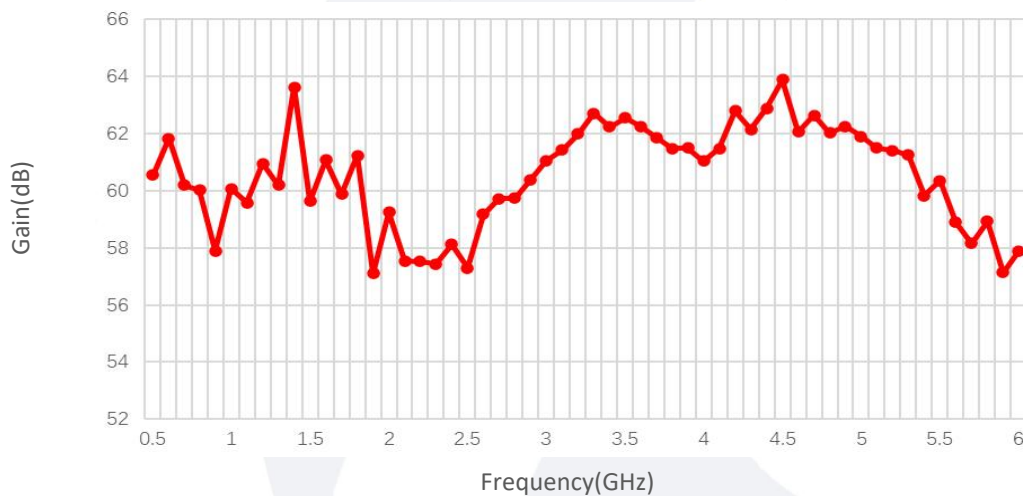
参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-20		+50	°C
存储温度 Non-operating Temperature	-40		+85	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	15000			feet
震动 Shock / Vibration(MIL-STD- 810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half 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
TLPA0.7G6G-53-53-BC	Solid State High Power Amplifier Systems 0.7-6GHz,Gain:53dB,Psat:53dBm,220V AC,Built in Fan Cooling	Rev.1.0

典型曲线 Typical Performance Data:

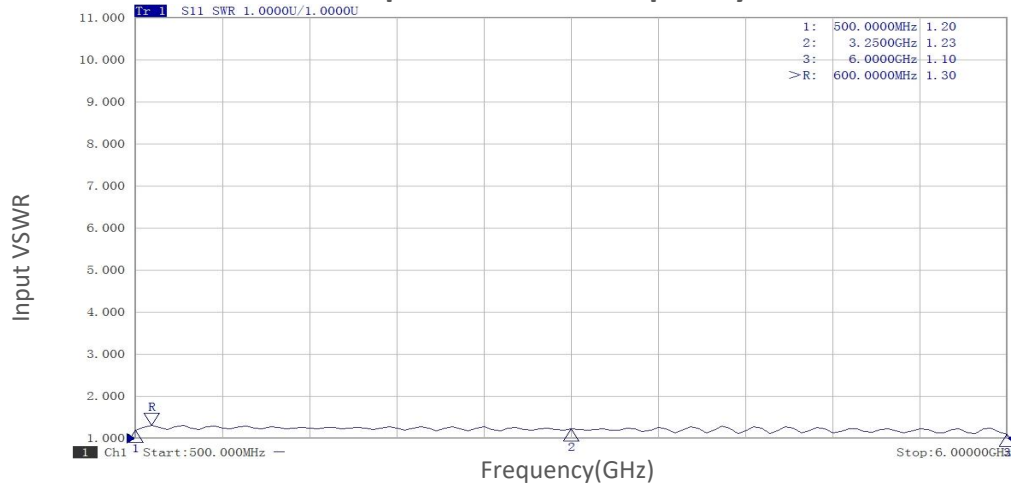
Small Signal Gain vs Frequency



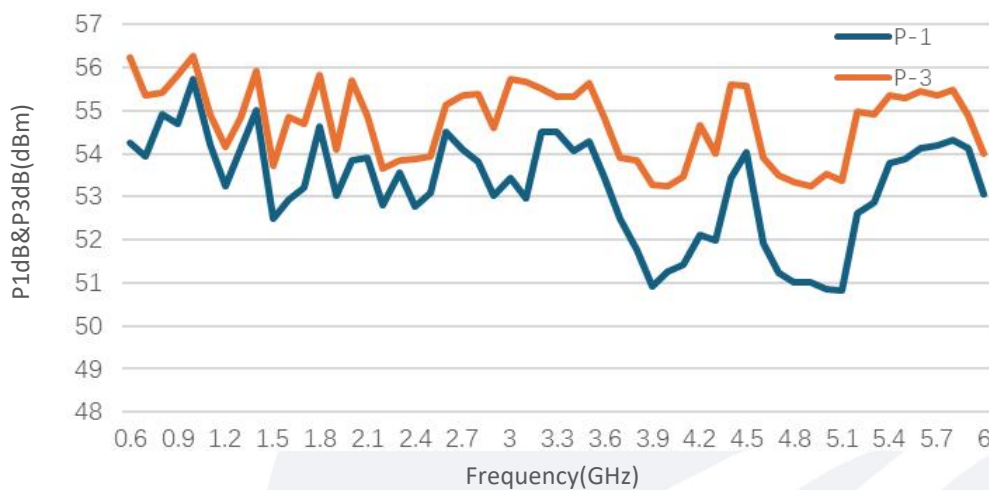
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

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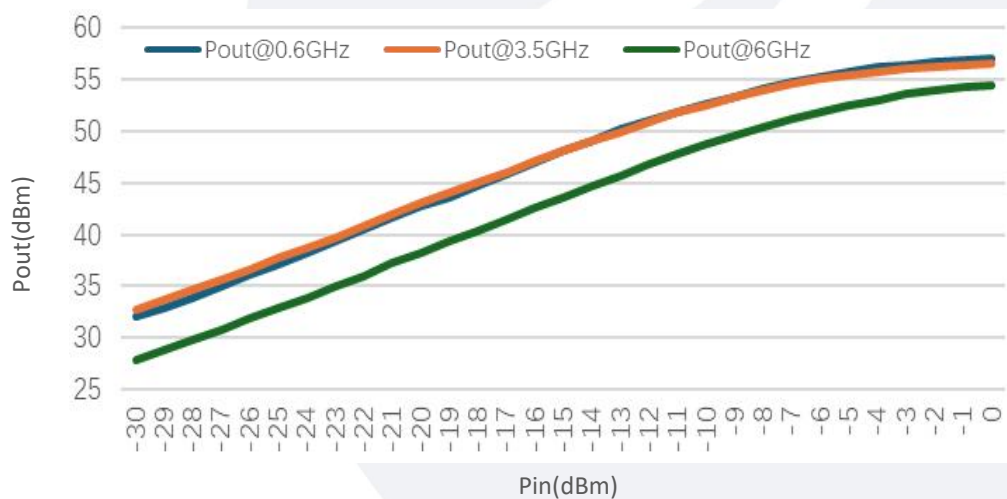
Input VSWR vs Frequency



P1dB&P3dB vs Frequency



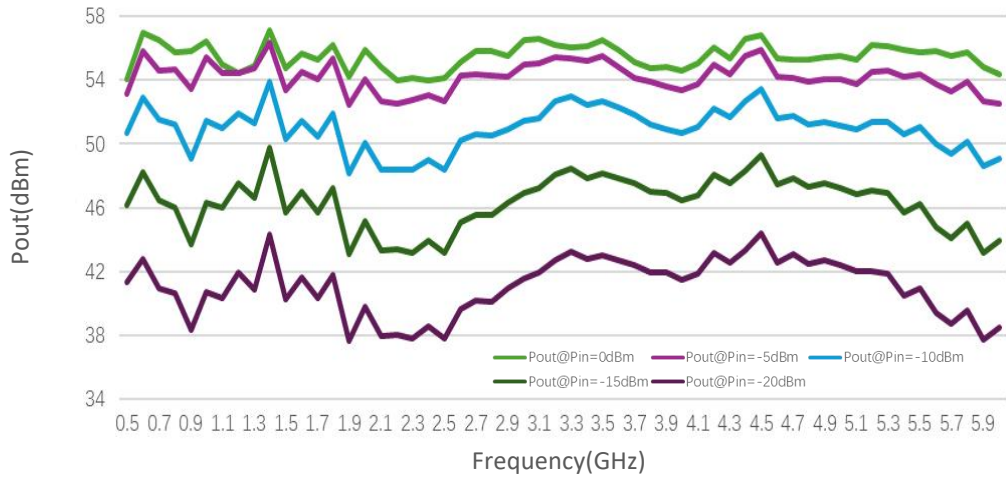
Pout@Pin



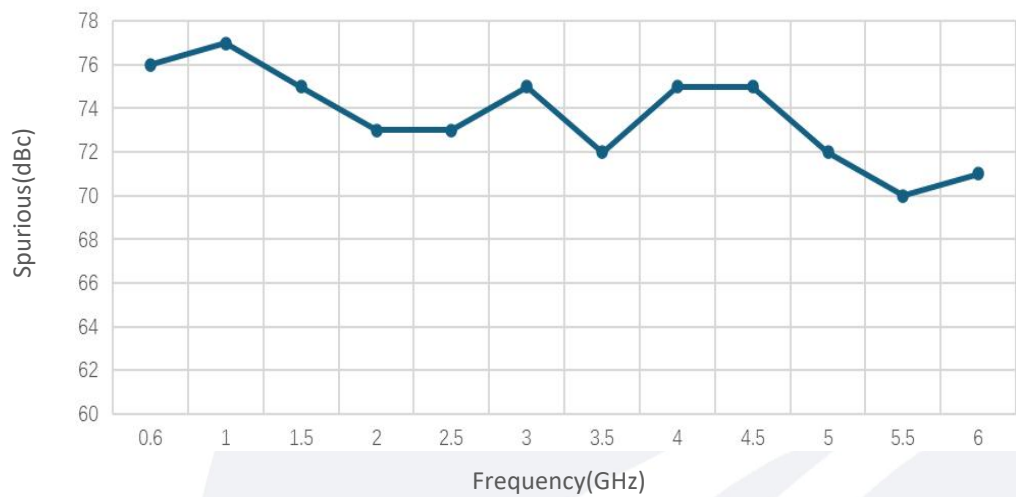
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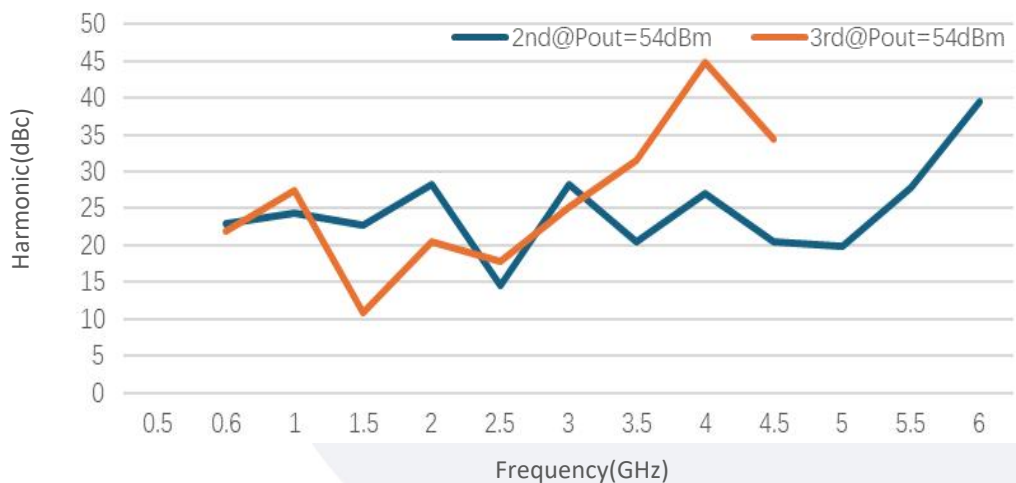
Pout@Equal_Pin



Spurious vs Frequency



Harmonic vs Frequency



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