

Model: TLPA0.8G3G-54-54-BC
**Solid State High Power Amplifier Systems
 0.8-3GHz, Gain: 54 dB, Psat: 54 dBm, 220V AC**
Feature:

- Wide Band: 0.8-3MHz
- Gain: 54dB Min
- Psat Output Power: 54dBm 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	0.8-3			GHz
增益 Gain	GP	54			dB
增益平坦度 Gain flatness	Δ GL		± 3		dB
饱和输出功率 Output Psat	Psat	54			dBm
线性输出功率 Output P1dB	P1dB		50		dBm
杂散 Spurious@Pout=54dB	Spur			-60	dBc
谐波 Harmonics@Pout=54dB	HAM			-10	dBc
输入驻波 Input VSWR	VSWRin		1	2.0	:1
交流电压 AC Voltage	Vac	220			V AC
功耗 Power Consumption	Pdiss	1000@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-K/N-K	
网口通信 Network port Communication	RJ-45	
尺寸 Size	19 Inch 5U	mm
重量 Weight	≤ 35	Kg

绝对最大值 Absolute Maximum Ratings:

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

温度环境 Environmental Conditions:

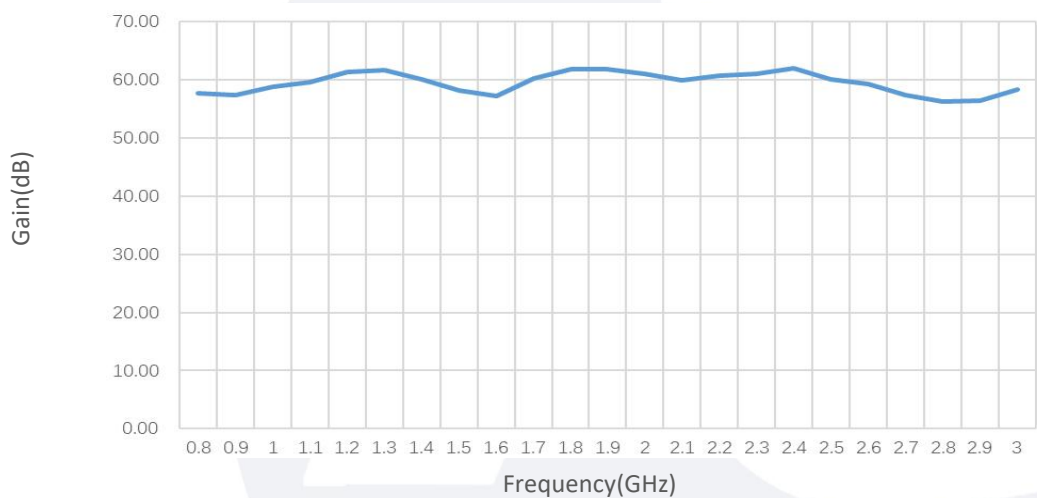
参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-20		+50	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50000			feet
震动 Shock / Vibration(MIL-STD- 810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc 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
TLPA0.8G3G-54-54-BC	Solid State High Power Amplifier Systems 0.8-3GHz, Gain:54dB, Psat:54 dBm, 220V AC, Built in Fan Cooling	Rev.1.0

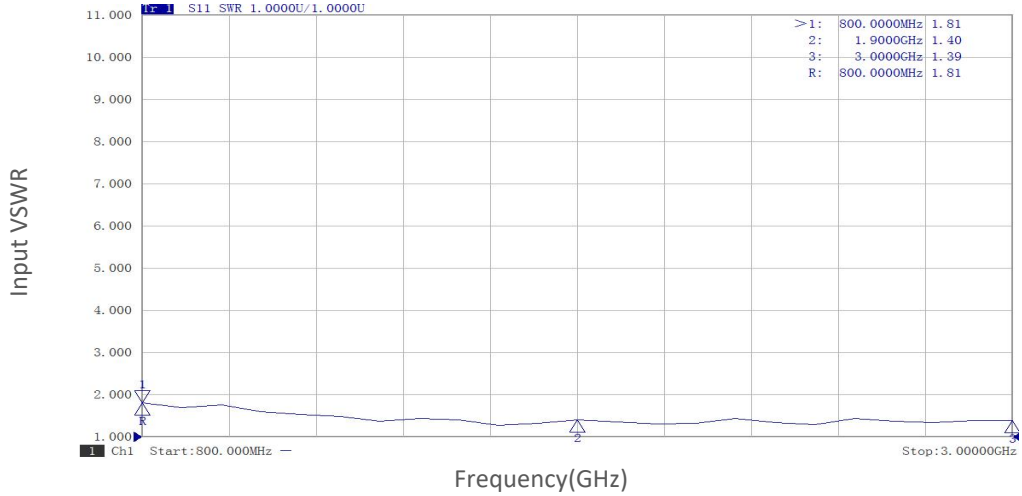
典型曲线 Typical Performance Data:

Gain vs Frequency

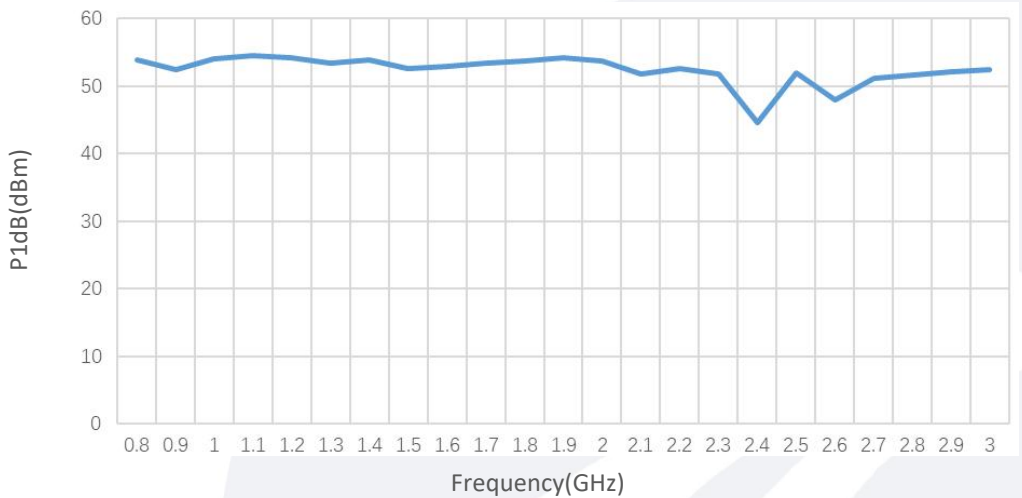


典型曲线 Typical Performance Data:

Input VSWR vs Frequency



P1dB vs Frequency

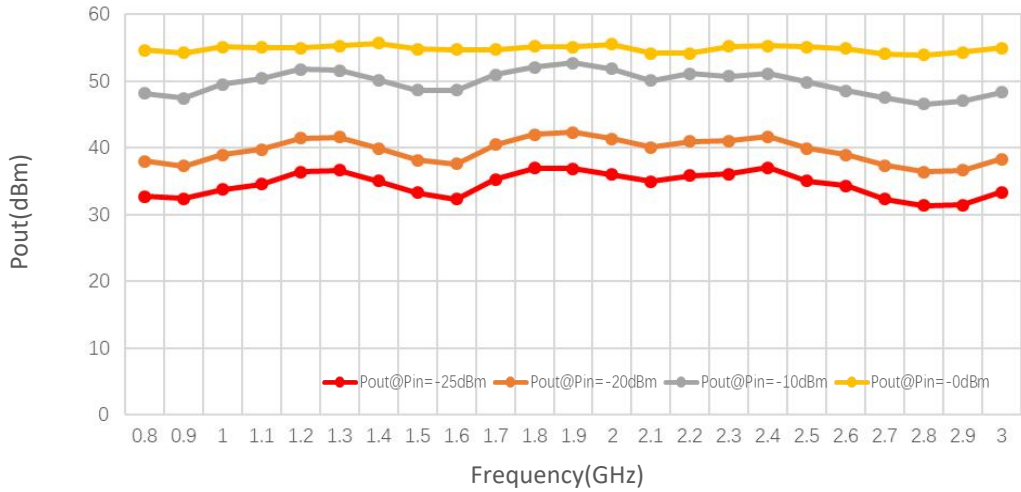


Pout@Pin

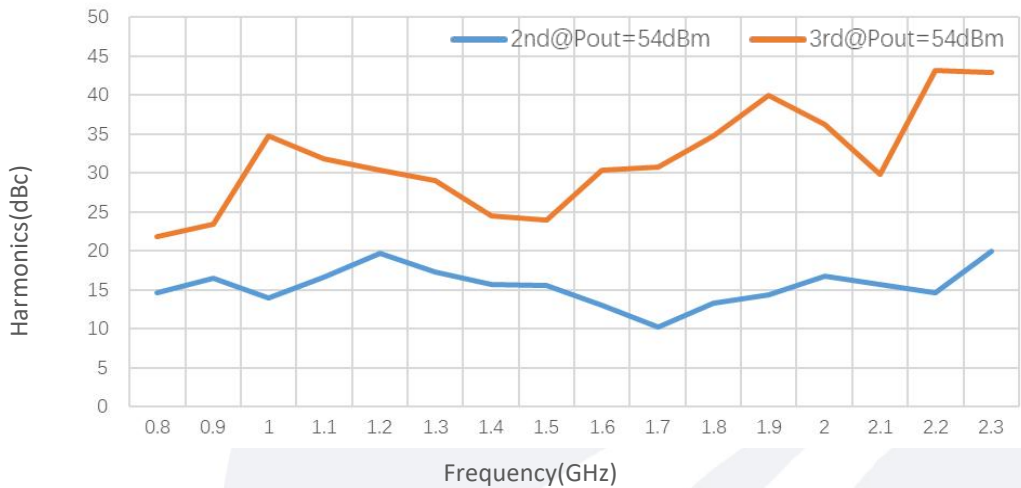


典型曲线 Typical Performance Data:

Pout@Equal_Pin



Harmonics vs Frequency



Spurious vs Frequency

