

Model:TLPA6G18G-54-54-BC
**Solid State High Power Amplifier Systems
 6-18GHz,Gain:54dB,Psat:54dBm,220V AC**
Feature:

- Wide Band: 6-18GHz
- 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	6-18			GHz
增益 Gain	GP	54			dB
增益平坦度 Gain flatness	Δ GL			± 4	dB
增益调节范围 Gain adjust range	Δ GR		30		dB
增益调节步进 Gain adjust step	Δ GS		0.5		dB
线性输出功率 Output P1dB	P1dB		49		dBm
饱和输出功率 Output Psat	Psat	54			dBm
杂散 Spurious@Pout=54dBm	Spur			-60	dBc
谐波 Harmonics@Pout=54dBm	HAM		-15	-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 WRD500	
尺寸 Size	5U	
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	220V AC
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, LCD Screen Display
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:

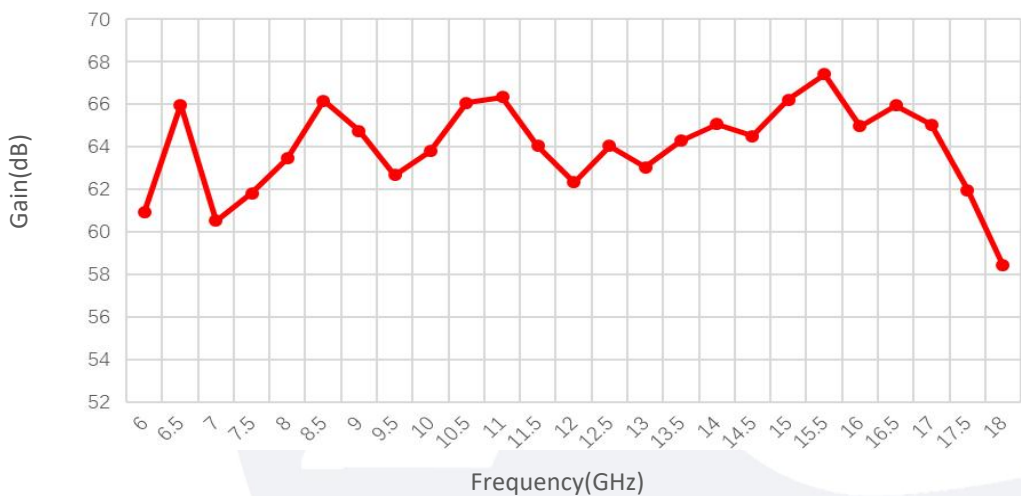
参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	0		+50	°C
存储温度 Non-operating Temperature	-20		+50	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	10000			feet
震动 Shock / Vibration(MIL-STD- 810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

标准型号 Part Number	描述 Description	版本号 Revision
TLPA6G18G-54-54-BC	Solid State High Power Amplifier Systems 6-18GHz,Gain:54dB,Psat:54dBm,220V AC,Built in Fan Cooling	Rev.1.0

典型曲线 Typical Performance Data:

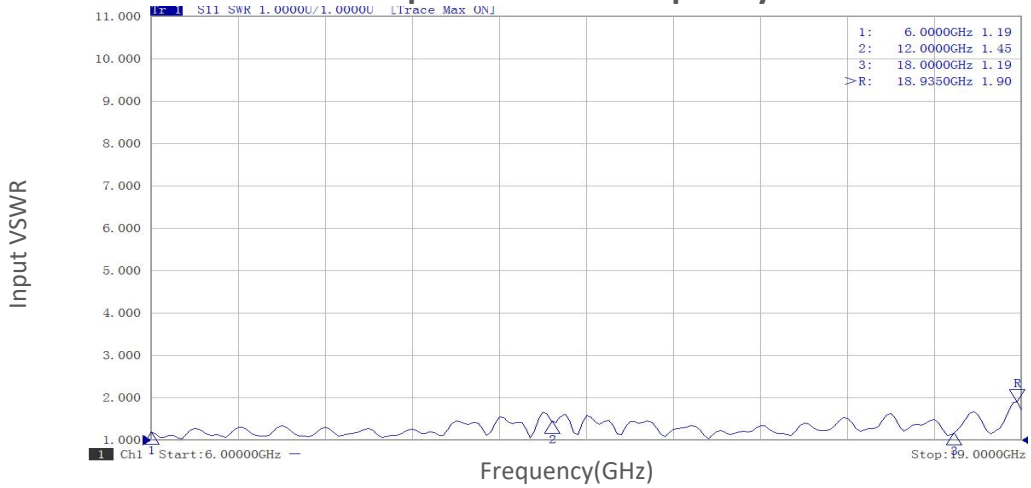
Gain vs Frequency



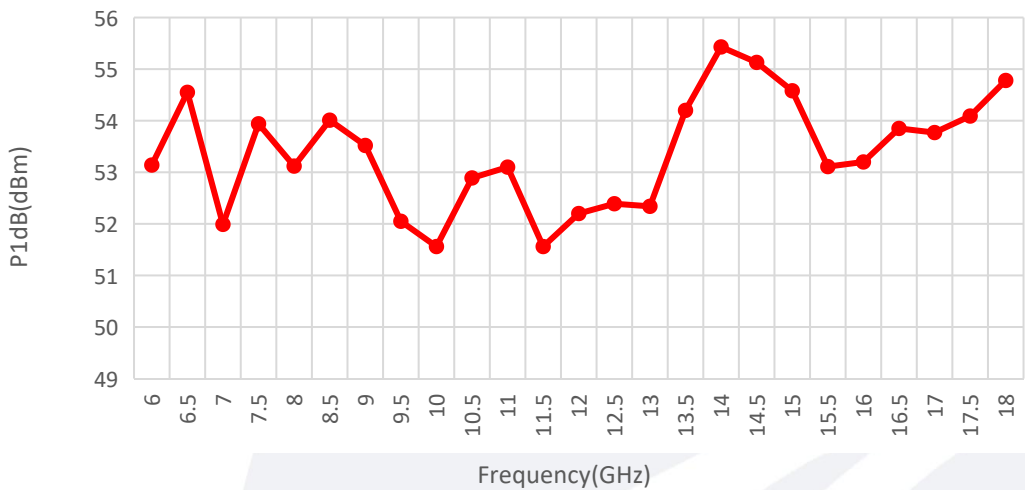
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

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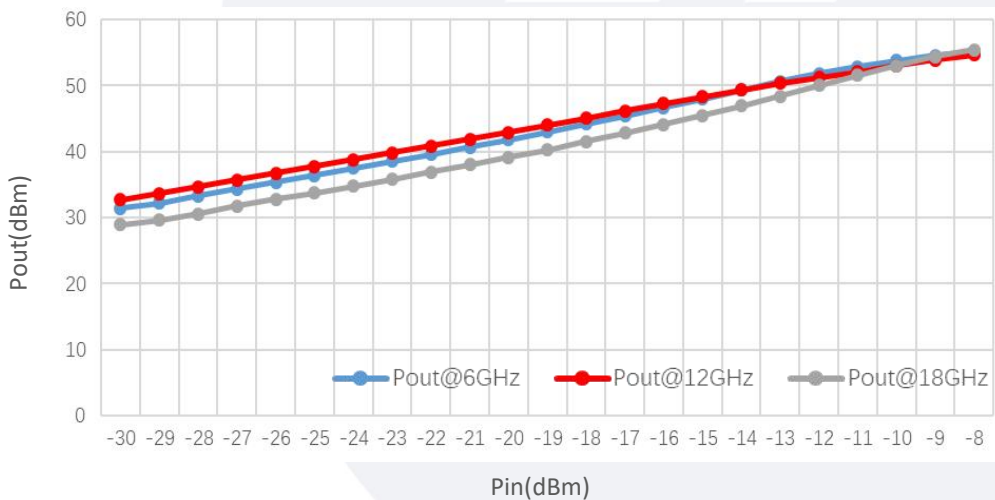
Input VSWR vs Frequency



P1dB vs Frequency



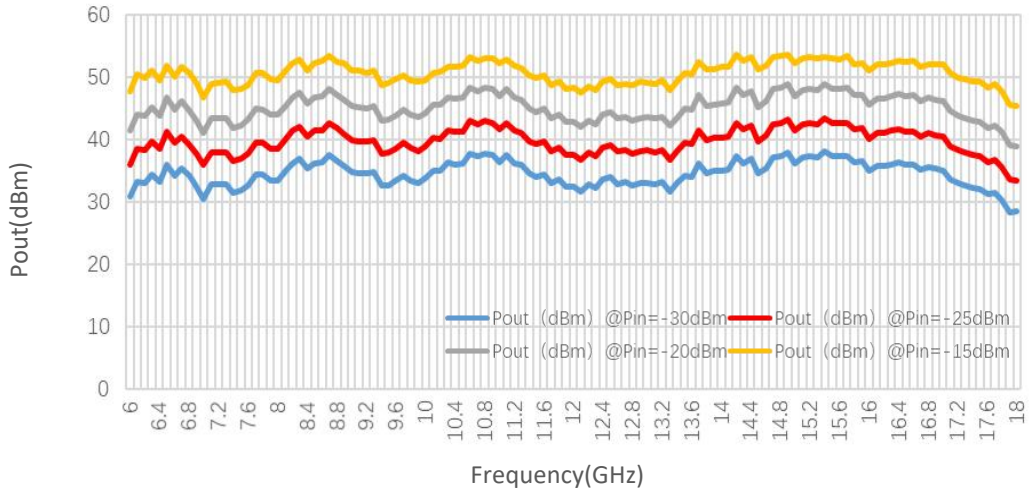
Pout@Pin



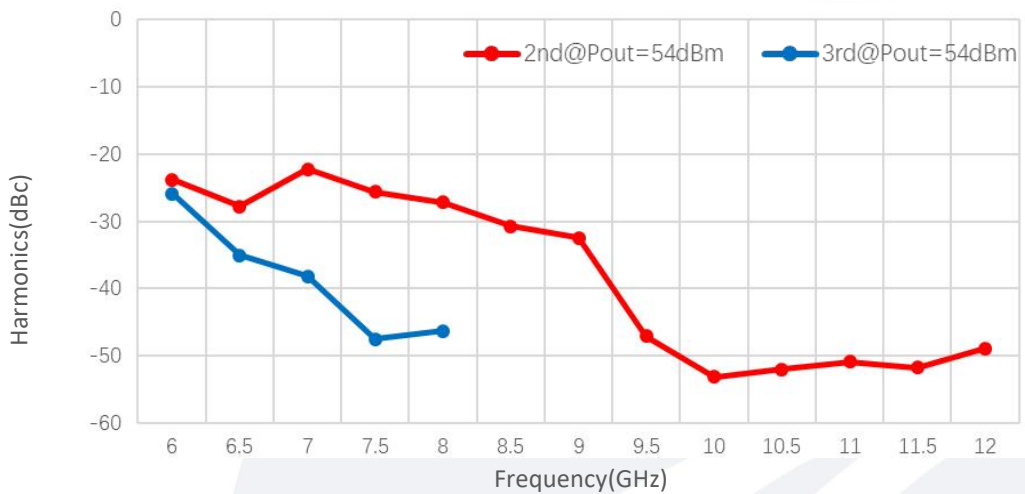
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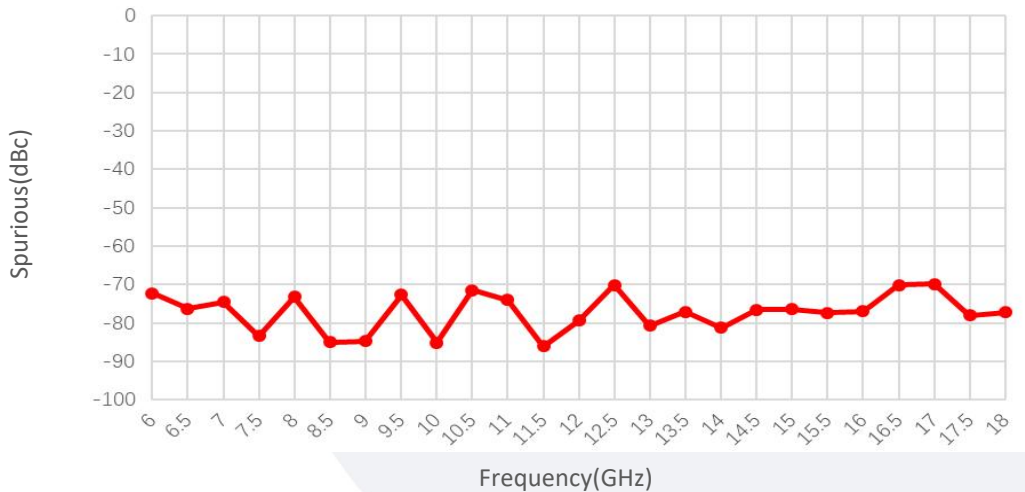
Pout@Equal_Pin



Harmonics vs Frequency



Spurious vs Frequency



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