

**Model:TLPA6G18G-43-43-BC**
**Solid State High Power Amplifier Systems  
 6-18GHz,Gain:43dB,Psat:43dBm,220V AC**
**Feature:**

- Wide Band: 6-18GHz
- Gain: 43dB Min
- Psat Output Power:43dBm 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 Sympo	Min	Typ	Max	单位Units
频率范围 Frequency range	BW	6-18			GHz
增益 Gain	GP	43			dB
增益平坦度 Gain flatness	ΔGL		±3		dB
ALC 精度 ALC Precision	ALC			±0.5	dB
饱和输出功率 Output Psat	Psat	43			dBm
杂散 Spurious@Pout=43dBm	Spur			-60	dBc
谐波 Harmonics@Pout=43dBm	HAM			-15	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	400@Max			Watts
阻抗 Impedance	I/O-IMP	50			Ohms

**机械特性 Mechanical Specifications:**

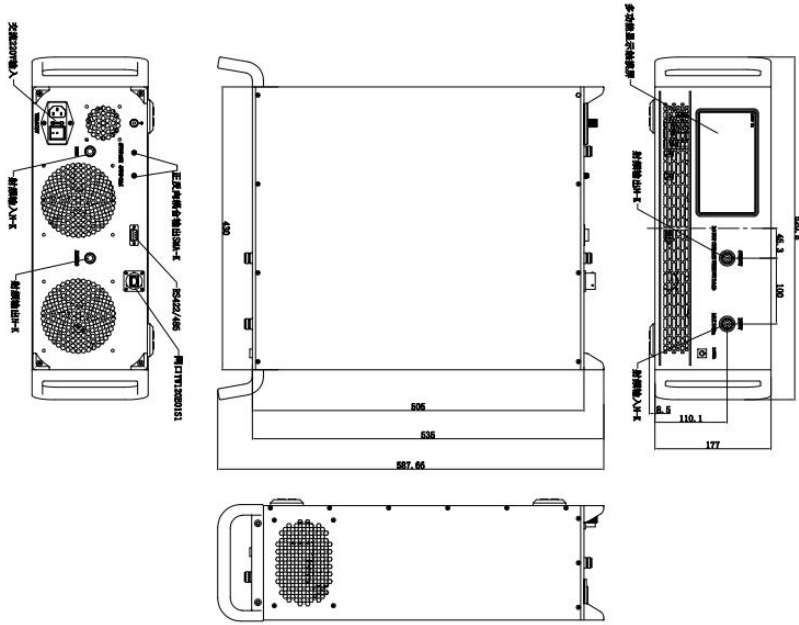
参数 Parameter	指标 Value	单位Units
输入/输出接口 Input/Output Connector	SMA Female/SMA Female	
程控接口 Network port Communication	RS422/RJ-45	
尺寸 Size	19 Inch 3U*550 depth	mm
重量 Weight	≤30	Kg

**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 Control	RS422/Ethernet, LCD Screen Display
显示功能 Display functions	1, Output Power 2, Reflect Power 3, Fault message
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:**

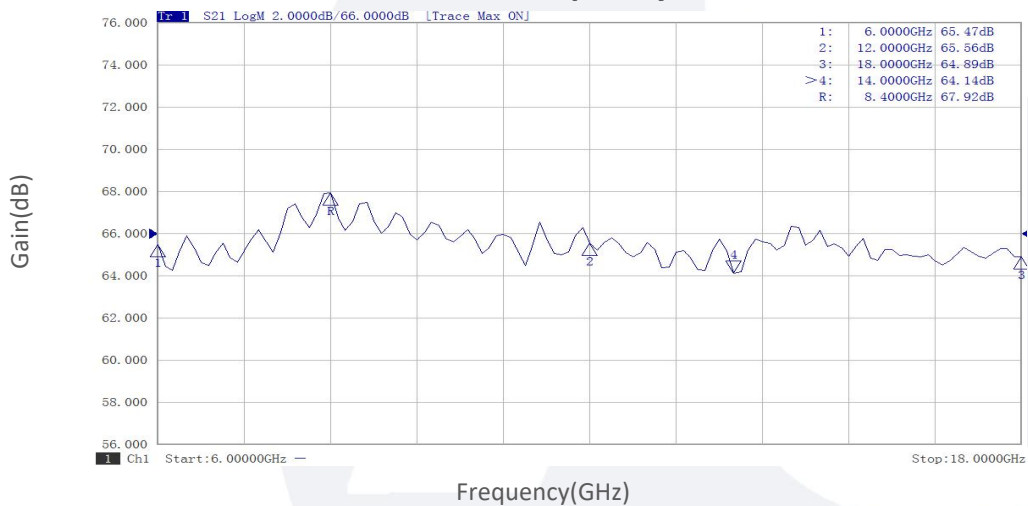
参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-20		+50	°C
存储温度 Non-operating Temperature	-45		+65	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50000			feet
震动 Shock / Vibration(MIL-STD- 810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half 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
TLPA6G18G-43-43-BC	Solid State High Power Amplifier Systems 6-18GHz,Gain:43dB,Psat:43dBm,220V AC,Built in Fan Cooling	Rev.1.0

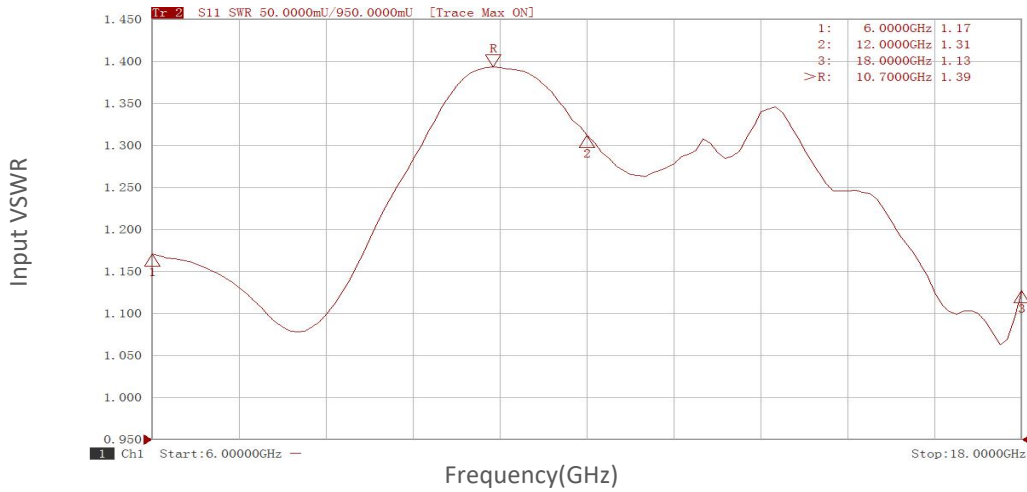
**典型曲线 Typical Performance Data:**

**Gain vs Frequency**

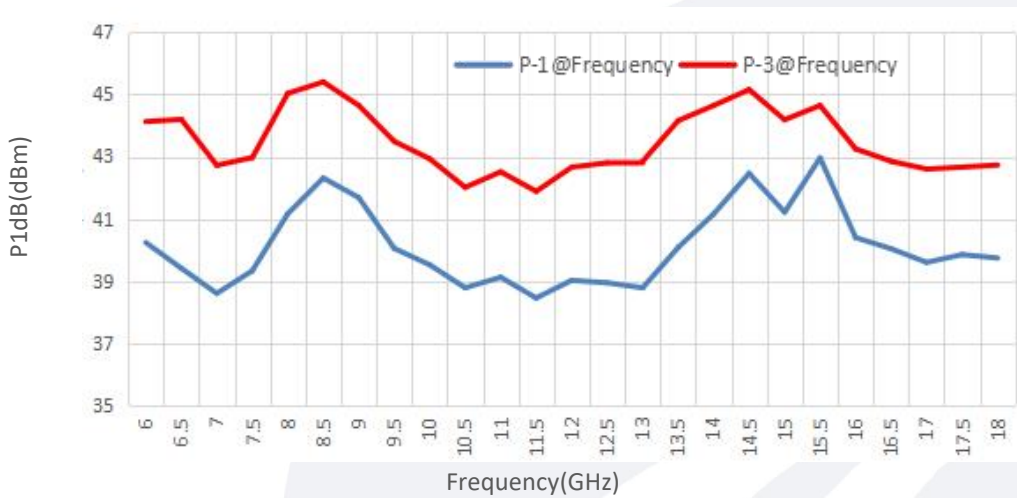


典型曲线 Typical Performance Data:

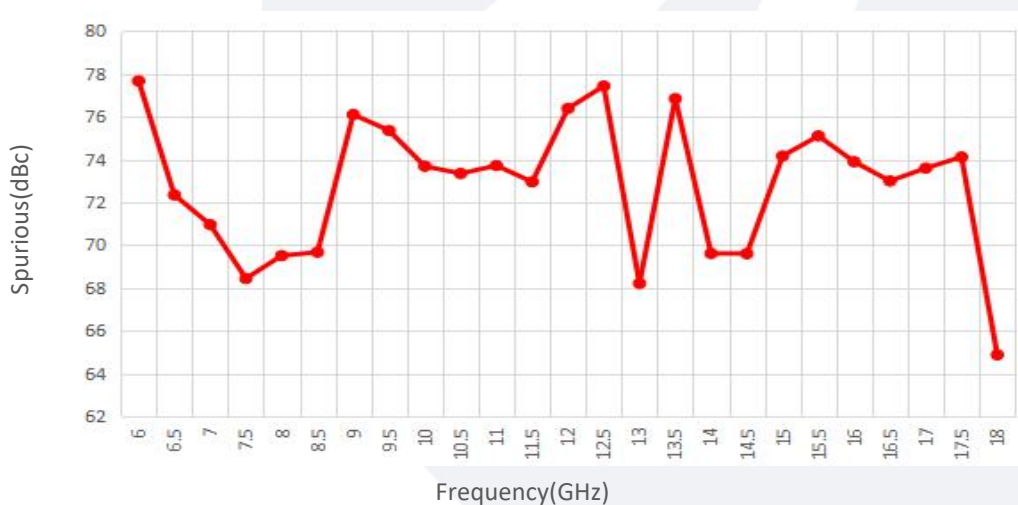
Input VSWR vs Frequency



P1dB vs Frequency

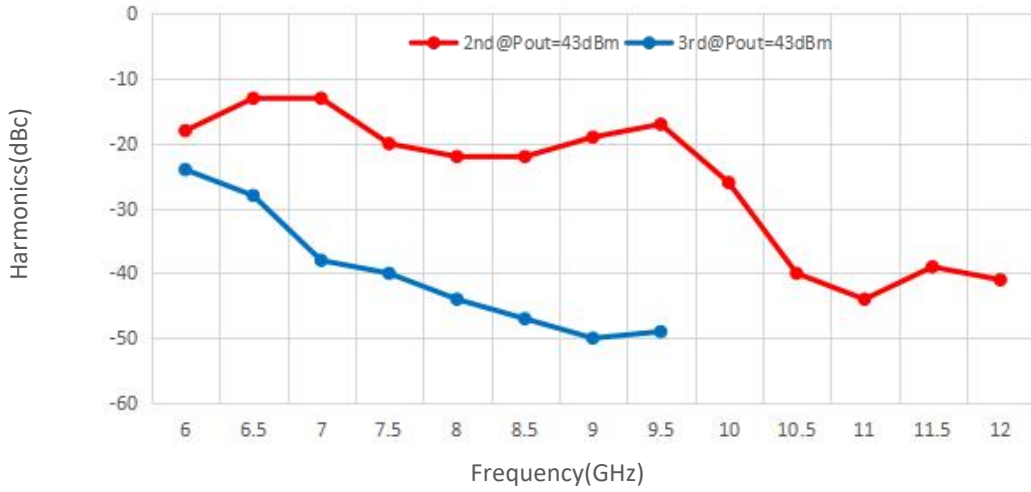


Spurious@Pout=43dBm

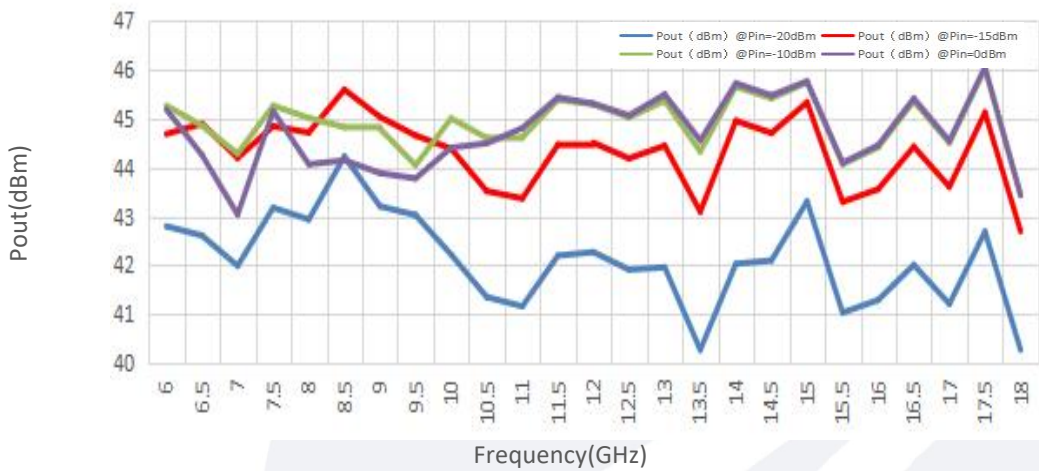


典型曲线 Typical Performance Data:

Harmonics@Pout=43dBm



Pout@Equal\_Pin



Pout@Pin

