

## Model:TLPA2G18G-43-43-BC

## Solid State High Power Amplifier Systems 2-18GHz,Gain:43dB,Psat:43dBm220V AC

### Feature:

- Wide Band: 2-18GHz
- 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 Sybo	Min	Typ	Max	单位Units
频率范围 Frequency range	BW	2-18			GHz
增益 Gain	GP	43			dB
饱和输出功率 Output Psat	Psat	43			dBm
杂散 Spurious	Spur		-60		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 consumtpion	Pdiss	400			Watts
阻抗 Impedance	I/O-IMP	50			Ohms

### 机械特性 Mechanical Specifications:

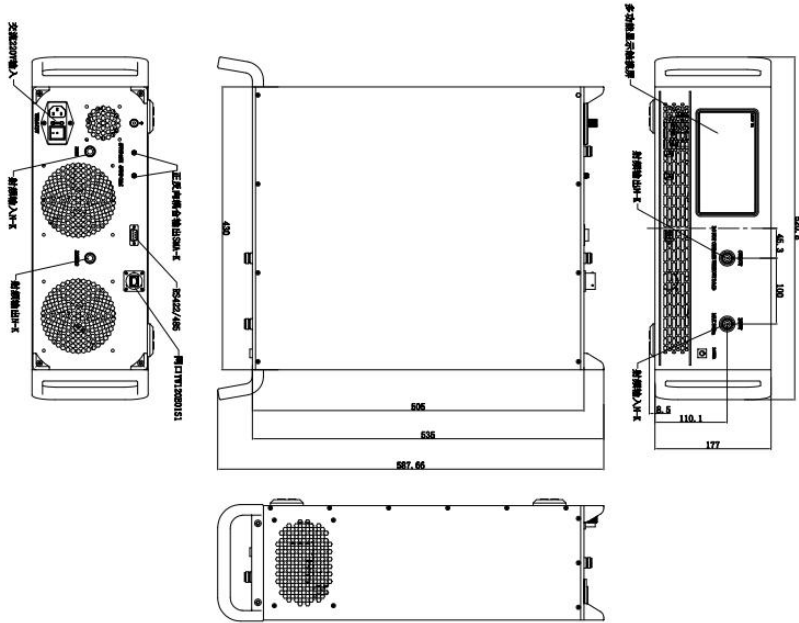
参数 Parameter	指标 Value	单位Units
输入/输出接口 Input/Output Connector	SMA Female/SMA Female	
AC加电控制 AC Power Interface	Air switch	
尺寸 Size	19 Inch 2U*485mm depth	
重量 Weight	20	Kg

### 绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	260V 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
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:

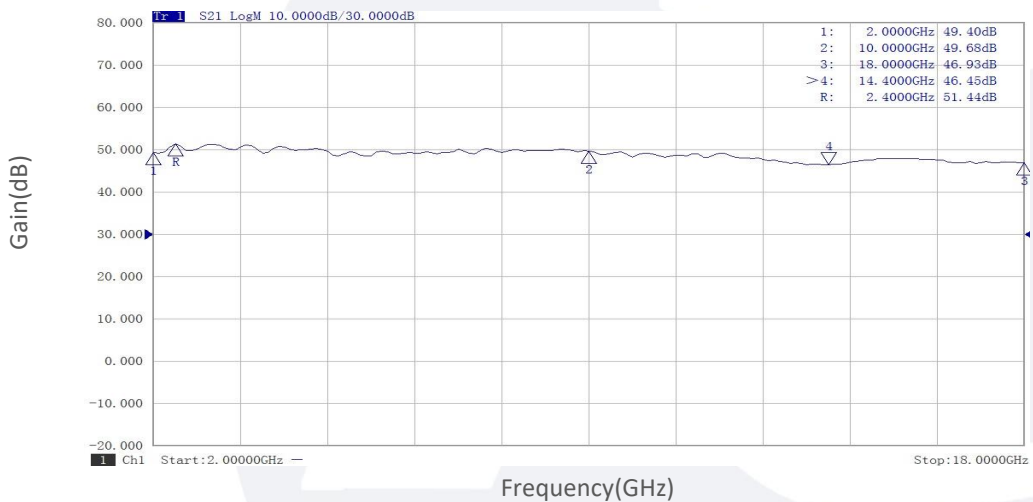
参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-20		+60	°C
存储温度 Non-operating Temperature	-45		+65	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50000			feet
震动 Shock / Vibration(MIL-STD- 810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half 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
TLPA2G18G-43-43-BC	Solid State High Power Amplifier Systems 2-18GHz,Gain:43dB,Psat:43dBm,220V AC,Built in Fan Cooling	Rev.1.0

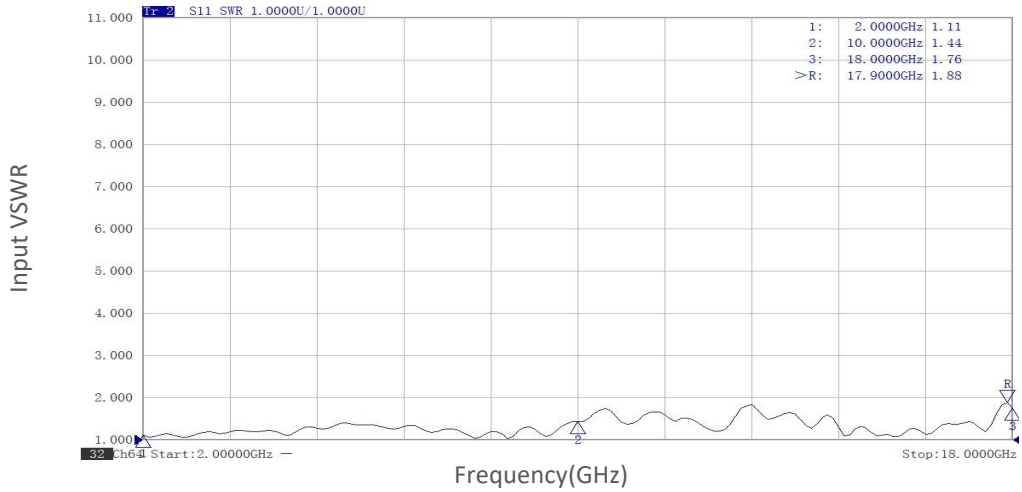
### 典型曲线 Typical Performance Data:

#### Gain vs Frequency

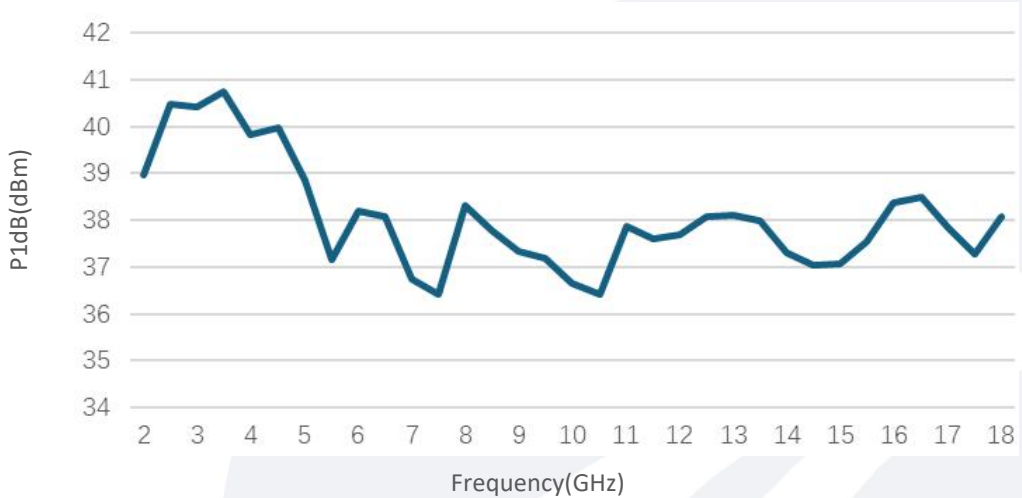


典型曲线 Typical Performance Data:

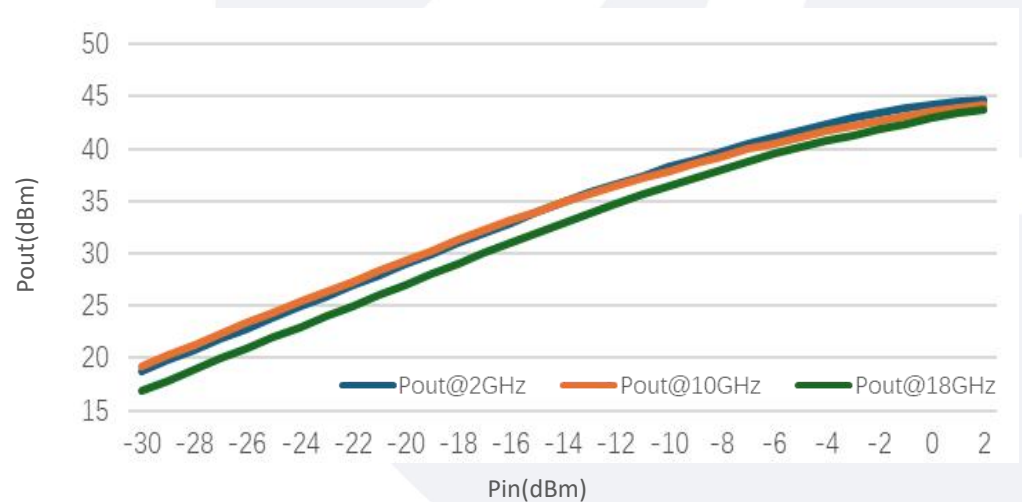
Input VSWR vs Frequency



P1dB vs Frequency

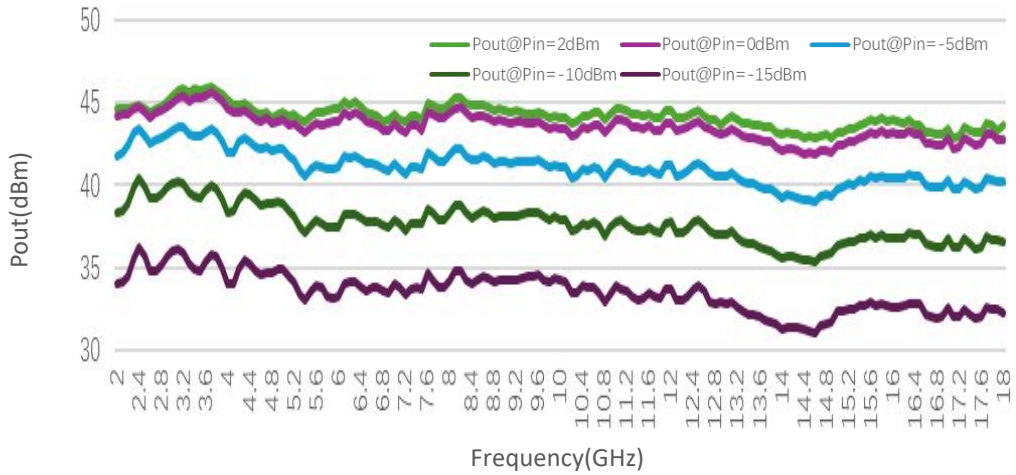


Pout@Pin

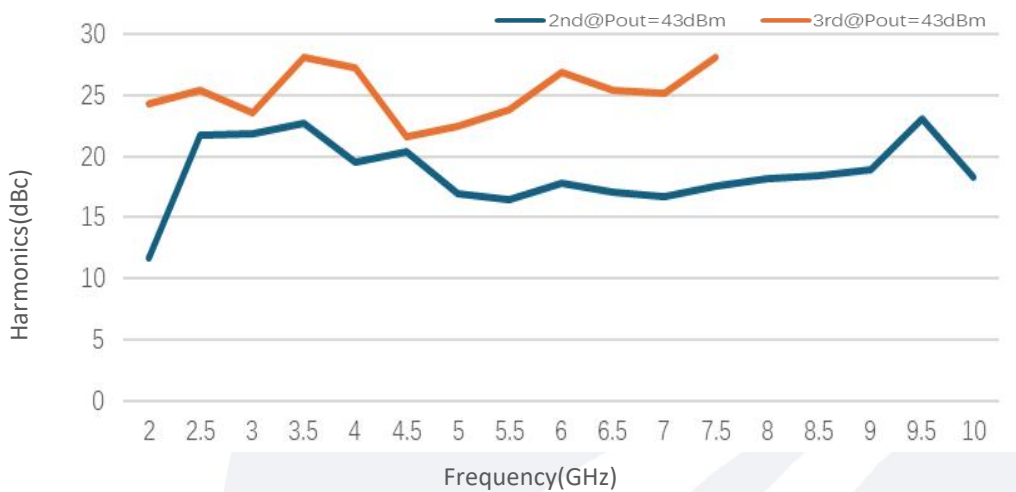


典型曲线 Typical Performance Data:

Pout@Equal\_Pin



Harmonics vs Frequency



Spurious vs Frequency

