

**Model:TLPA2G18G-40-40-BC**
**Solid State High Power Amplifier Systems  
 2-18GHz,Gain:40dB,Psat:40dBm,220V AC**
**Feature:**

- Wide Band: 2-18GHz
- Gain: 40dB Min
- Psat Output Power:40dBm 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	2-18			GHz
功率增益 Power Gain@Pout=40dBm	GP	40			dB
增益平坦度 Gain flatness	$\Delta$ GL		$\pm 3$		dB
饱和输出功率 Output Psat	Psat	40			dBm
杂散 Spurious@Pout=40dBm	Spur			-60	dBc
谐波 Harmonics@Pout=40dBm	HAM		-15	-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 Consumption	Pdiss			200	W
阻抗 Impedance	I/O-IMP	50			Ohms

**机械特性 Mechanical Specifications:**

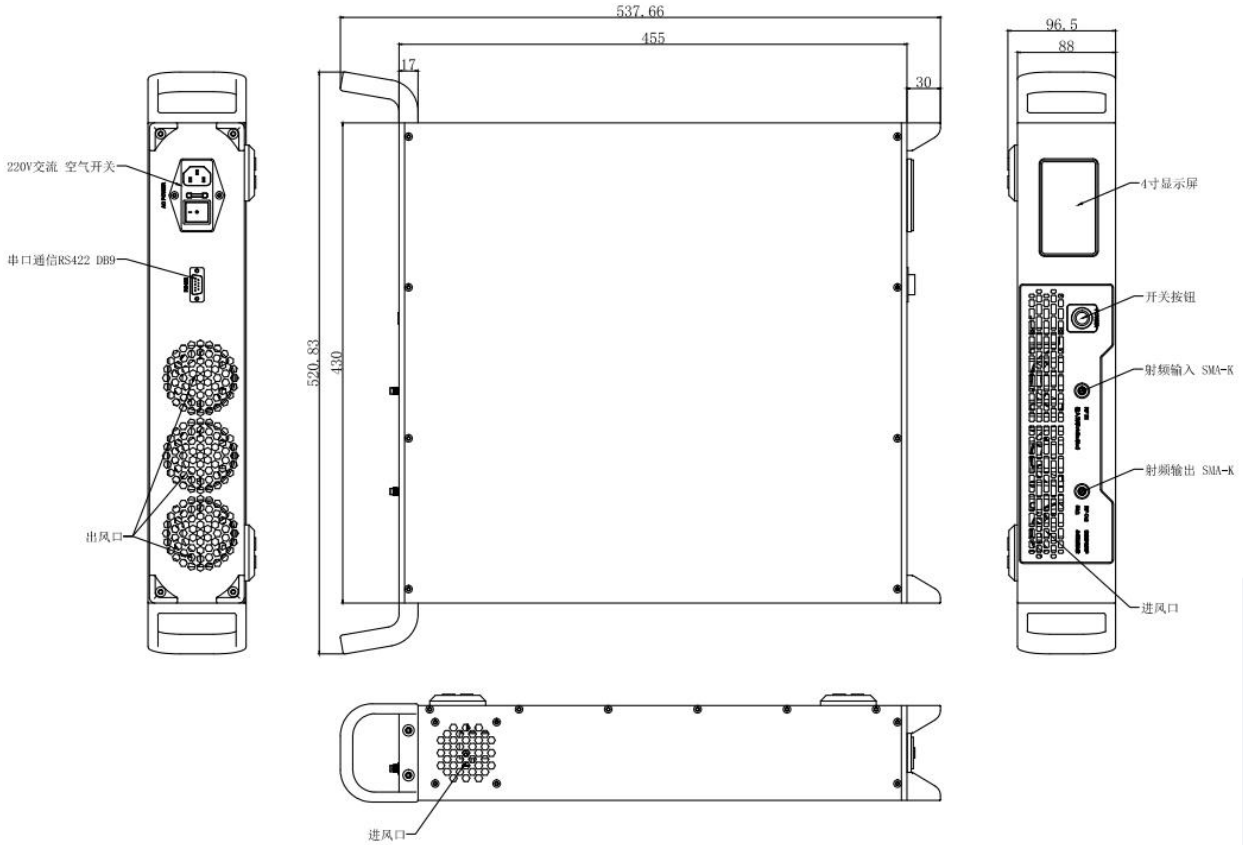
参数 Parameter	指标 Value	单位Units
输入/输出接口 Input/Output Connector	SMA Female/SMA female	
通信接口 Communication Connector	DB9/RJ45	
尺寸 Size	19 Inch 2U*550	mm
重量 Weight	$\leq 25$	Kg

**绝对最大值 Absolute Maximum Ratings:**

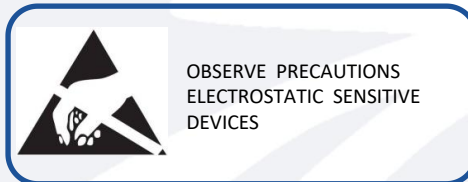
参数 Parameter	指标 Value
输入功率 RF Input Power	5 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形尺寸 Outline Drawing:

Unit: mm



主要功能 Key Features:



参数 Parameter	特点 Advantages
控制 Control	RS422
显示功能 Display functions	1, Display output power and reflected power 2, 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, Gain 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		+40	°C
存储温度 Non-operating Temperature	-30		+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			

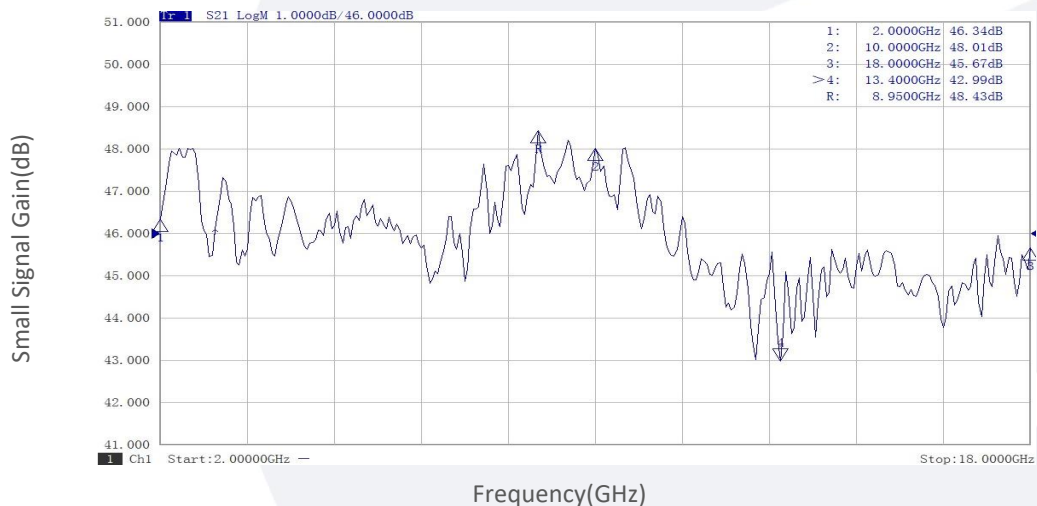
\*Note: For a wider temperature range, please consult the manufacturer.

### 订货信息 Ordering Information:

标准型号 Part Number	描述 Description	版本号 Revision
TLPA2G18G-40-40-BC	Solid State High Power Amplifier Systems 2-18GHz, Gain:40dB, Psat:40dBm, 220V AC, Built in Fan Cooling	Rev.1.0

### 典型曲线 Typical Performance Data:

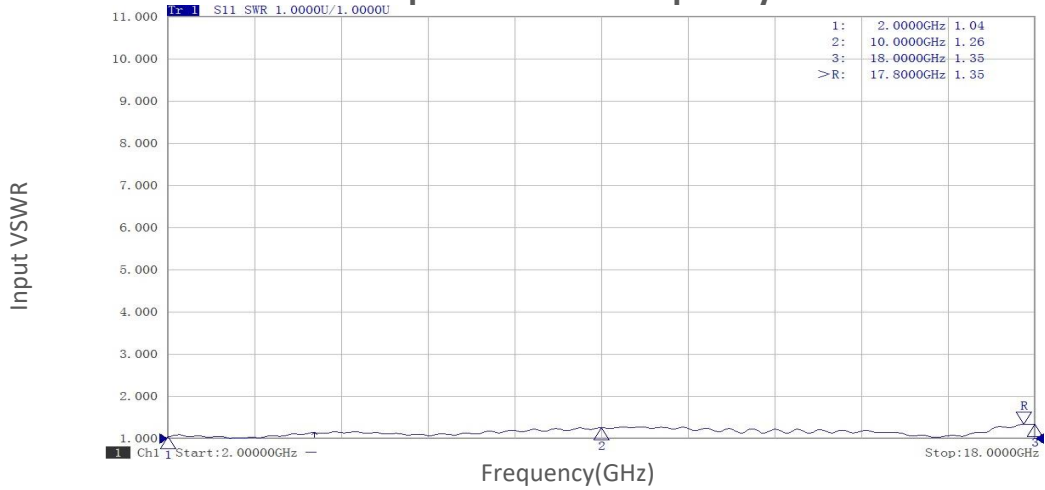
#### Small Signal Gain vs Frequency



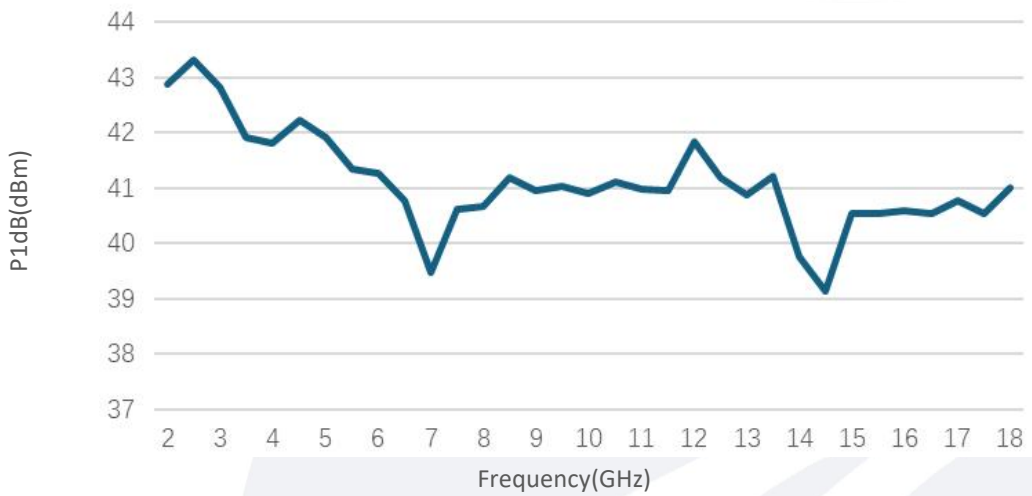
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

典型曲线 Typical Performance Data:

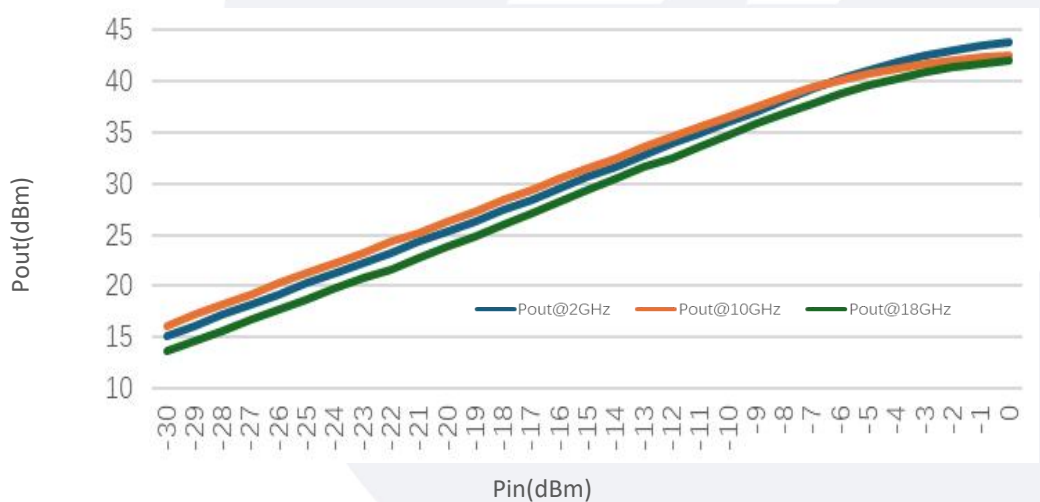
Input VSWR vs Frequency



P1dB vs Frequency



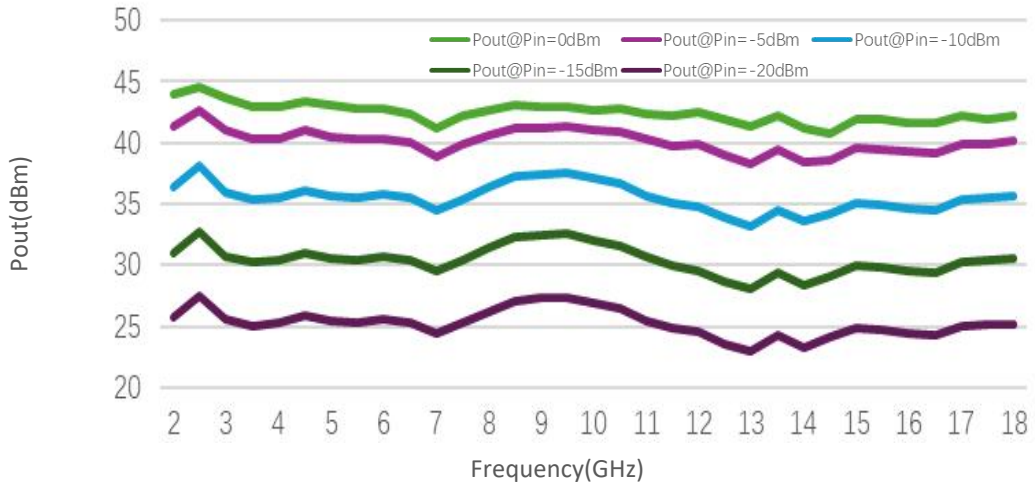
Pout@Pin



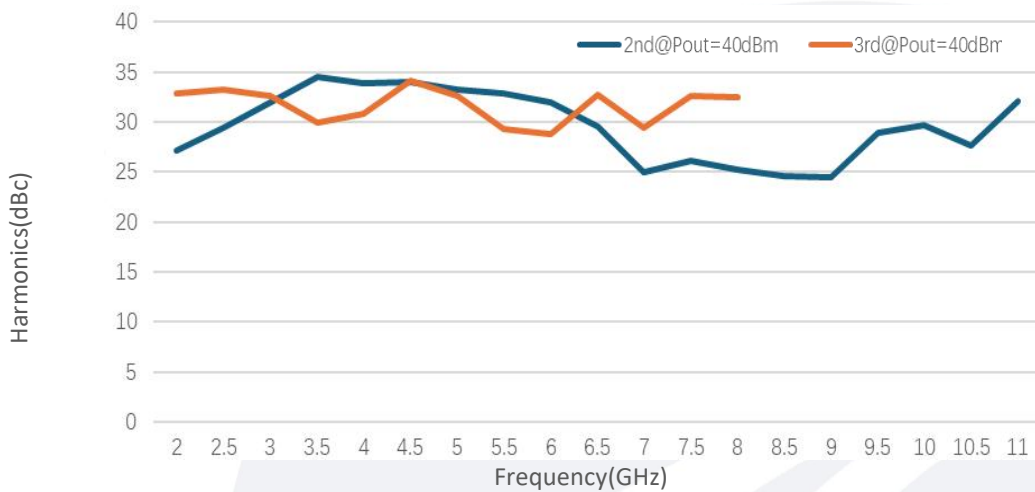
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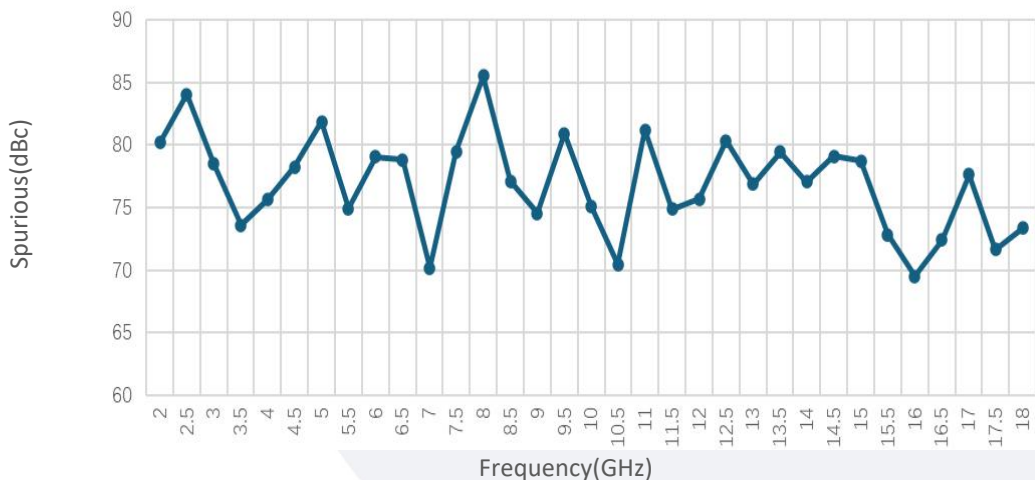
Pout@Equal\_Pin



Harmonics vs Frequency



Spurious vs Frequency



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