

**Model: TLPA18G40G-40-40-BC**
**Solid State High Power Amplifier Systems  
 18-40GHz, Gain: 40dB, Psat: 40dBm, 220V AC**
**Feature:**

- Wide Band: 18-40GHz
- 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	18-40			GHz
增益 Gain	GP	40			dB
增益平坦度 Gain flatness	$\Delta$ GL		$\pm 5$		dB
饱和输出功率 Output Psat	Psat	40	41		dBm
ALC精度	ALC			$\pm 0.5$	dB
杂散 Spurious	Spur			-50	dBc
谐波 Harmonics	HAM			-15	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:**

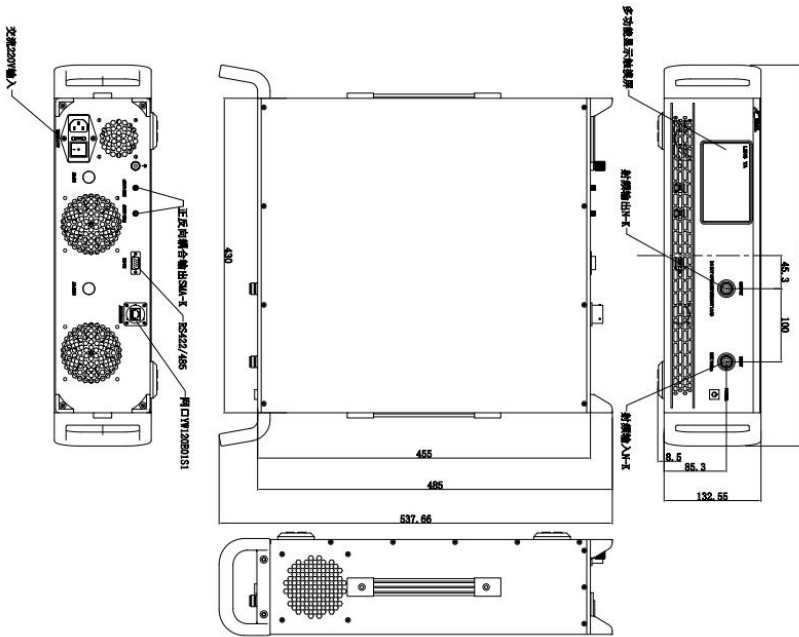
参数 Parameter	指标 Value	单位Units
输入/输出接口 Input/Output Connector	2.92 Female/2.92 Female	
通信接口 Communication Interfaces	RJ45/DB9	
尺寸 Size	19 Inch 3U	mm
重量 Weight	25	Kg

**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/LAN, LCD Screen Display
内置保护功能 Protection functions	1,Over TEM 2,Over voltage 3,Over current 4,Over VSWR
控制功能 Control functions	1, Power On/Off 2,RF On/Off 3,Gain Adjustment
冷却系统 Cooling system	Built in Cooling system,forced air cooling

**温度环境 Environmental Conditions:**

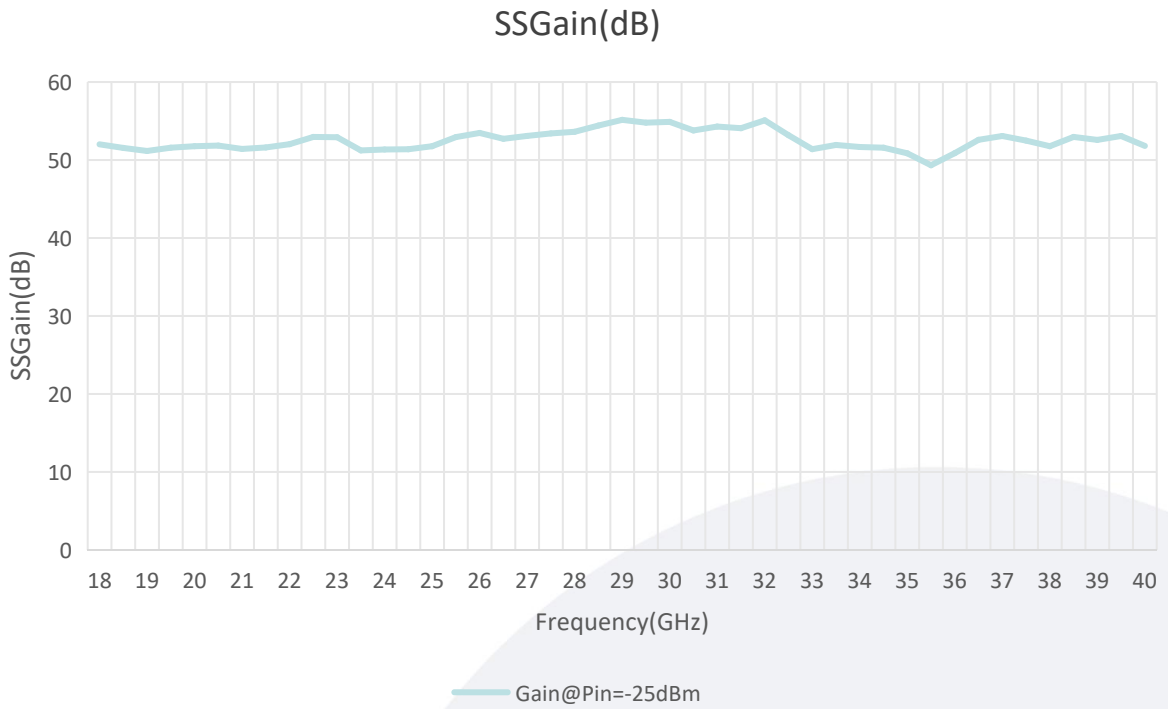
参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-20		+50	°C
存储温度 Non-operating Temperature	-45		+65	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	10000			feet
震动 Shock / Vibration(MIL-STD- 810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

**订货信息 Ordering Information:**

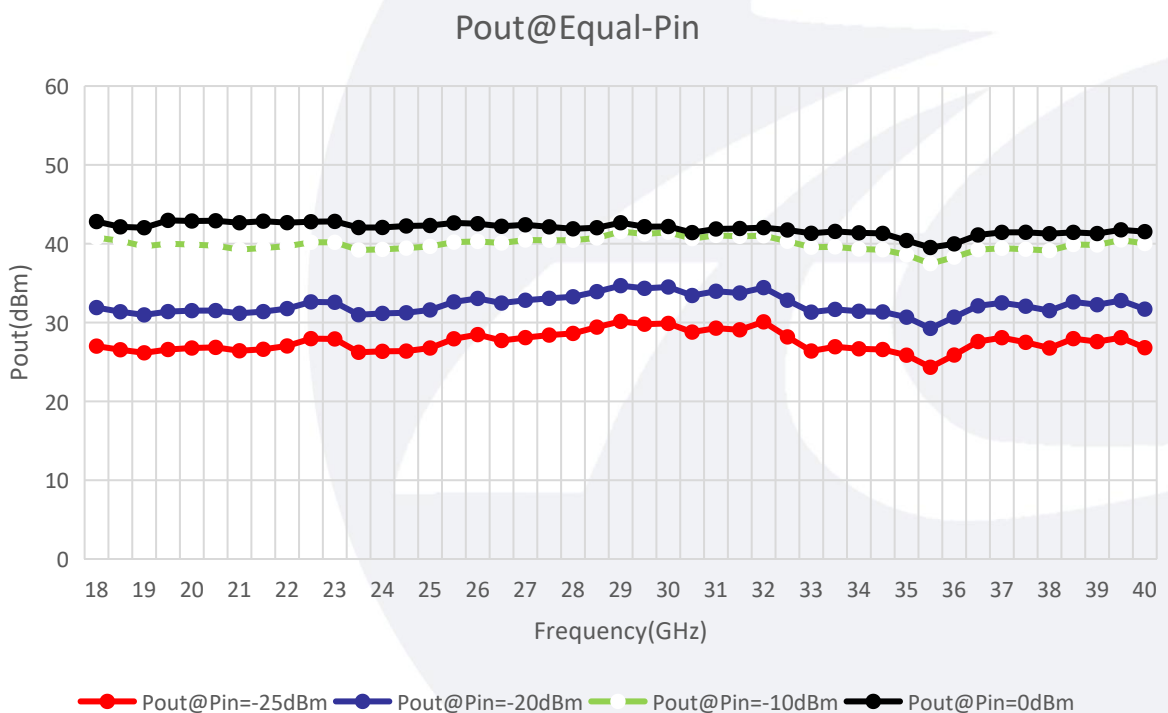
标准型号 Part Number	描述 Description	版本号 Revision
TLPA18G40G-40-40-BC	Solid State High Power Amplifier Systems 18-40GHz,Gain:40dB,Psat:40dBm,220V AC,Built in Fan Cooling	Rev.1.0

实测数据 Measured data:

1. 增益 Gain



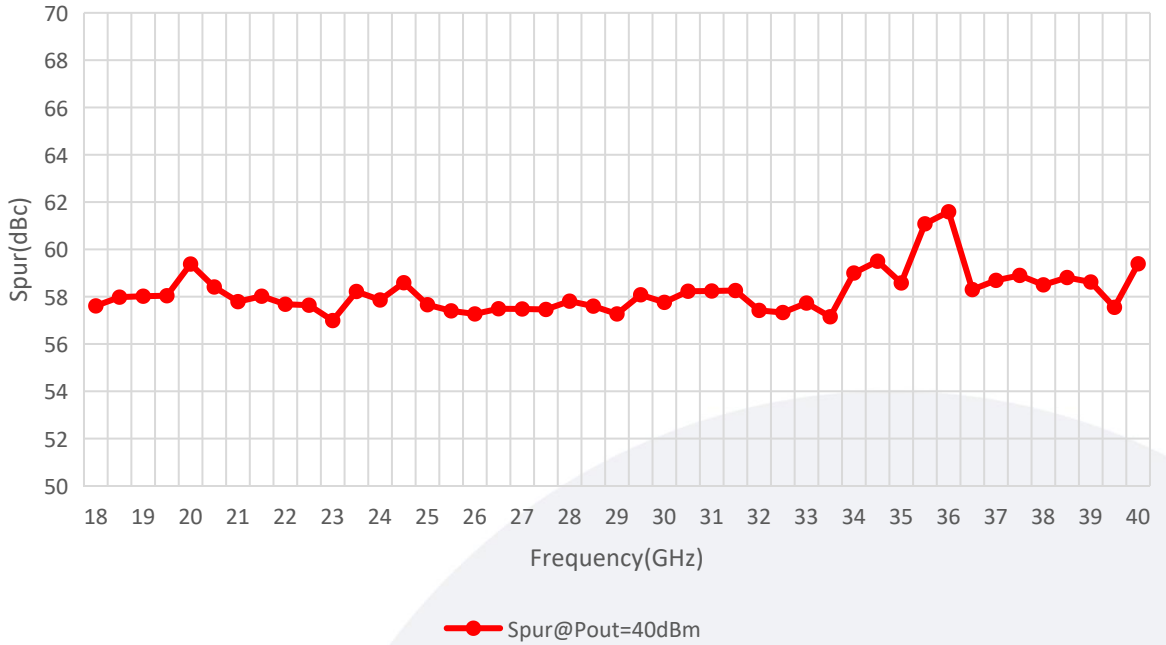
2. 输出功率 Output Power



实测数据 Measured data:

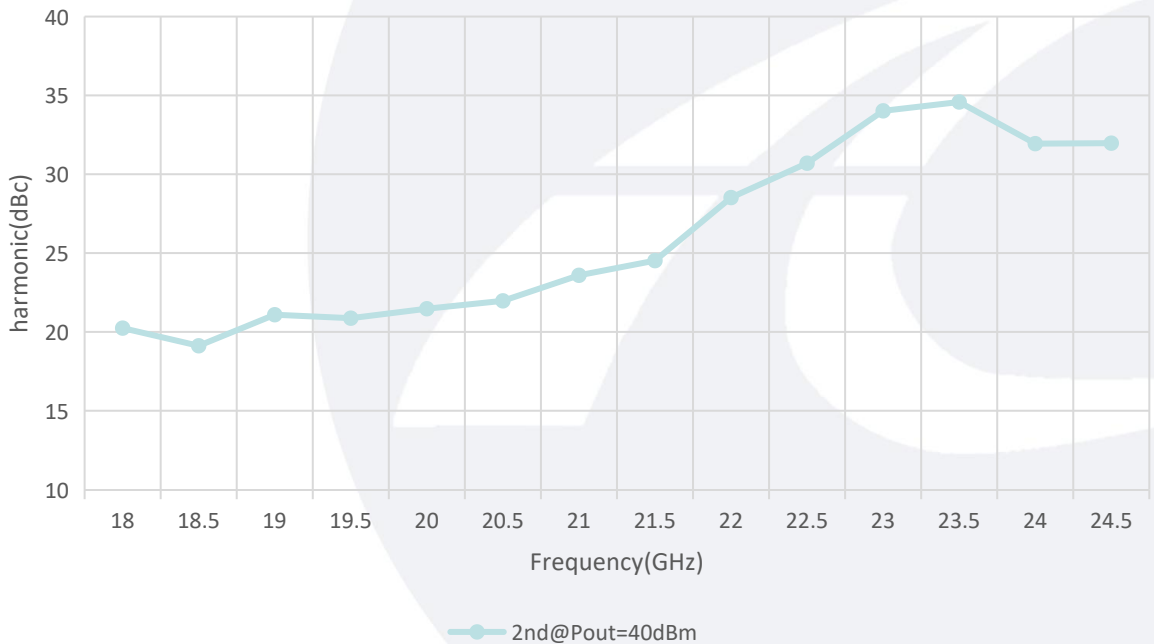
3. 杂散抑制 Spurious

Spur@Pout=40dBm



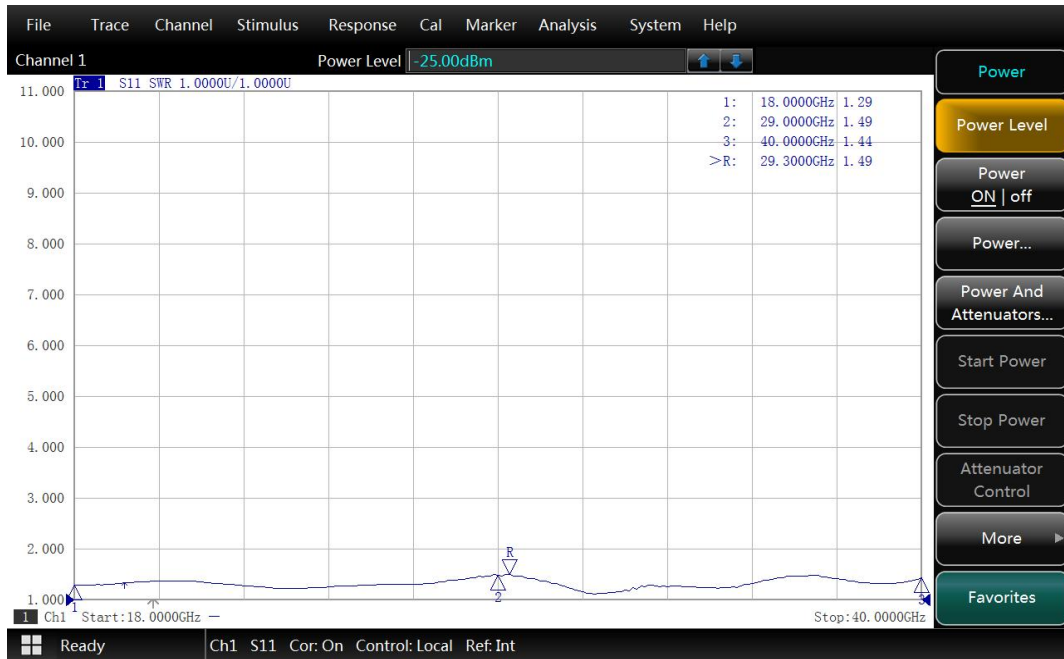
4. 谐波 Harmonics

Harmonic@Pout=40dBm



实测数据 Measured data:

5. 输入驻波 VSWR



6. 功耗 Power Dissipation

