

Solid State High Power Amplifier Systems

18-40GHz /40dB Gain/40 dBm Psat/220V AC

Model: TLPA18G40G-40-40-BC

TLPA18G40G-40-40-BC is a solid state high power amplifier systems provides high output power and high gain across the 18 to 40 GHz frequency range. The amplifier features a built-in 220V power supply, making it easy to use in most lab environments. This model features thermal self protection, preventing damage to the amplifier and providing added reliability.

Features:

- 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



Electrical Characteristics:

Parameter	Symbol	Min	Typ	Max	Units
Frequency range	BW	18-40			GHz
Gain	GP	40			dB
Gain flatness	ΔGL		± 5		dB
Output Psat	Psat	40	41		dBm
精度	ALC			± 0.5	dB
Spurious	Spur			-50	dBc
Harmonics	HAM			-15	dBc
Input VSWR	VSWR _{in}			2.0	:1
AC Voltage	Vac		220		V AC
Impedance	I/O-IMP	50			Ohms

Mechanical Specifications:

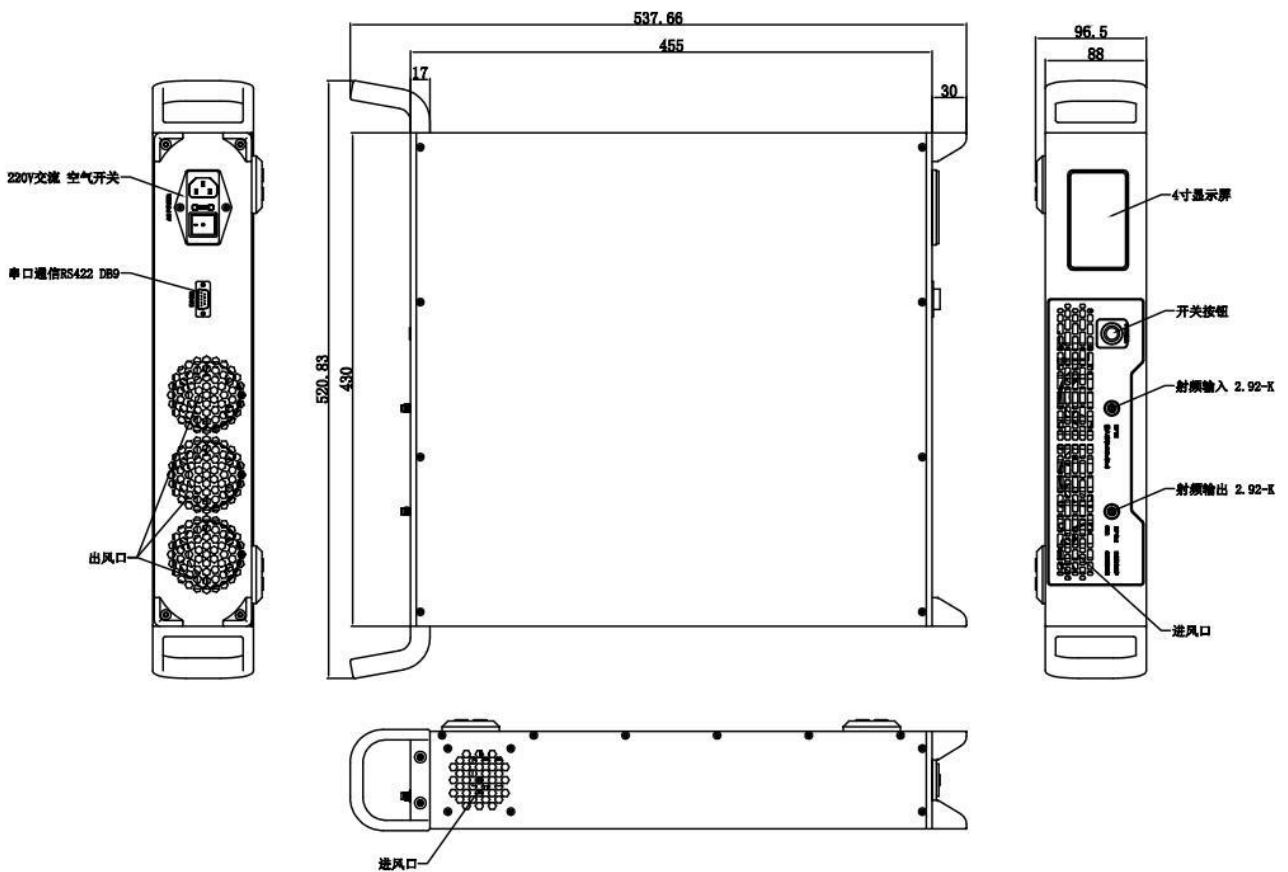
Parameter	Value	Units
Input /Output Connector	2.92 Female/2.92 Female	
Communication Connector	DB9	
Size	19 Inch 2U	
Weight	25	Kg

Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	260V AC
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit:mm



Key Features:

Parameter	Advantages
Control	RS422, LCD Screen Display
Protection functions	1,Over TEM 2,Over voltage 3,Over current 4,Over VSWR
Control functions	1, Power On/Off 2,RF On/Off 3,Gain Adjustment
Cooling system	Built in Cooling system,forced air cooling

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature*	-20		+50	°C
Non-operating Temperature*	-45		+65	°C
Relative humidity		95		%
Altitude	10,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

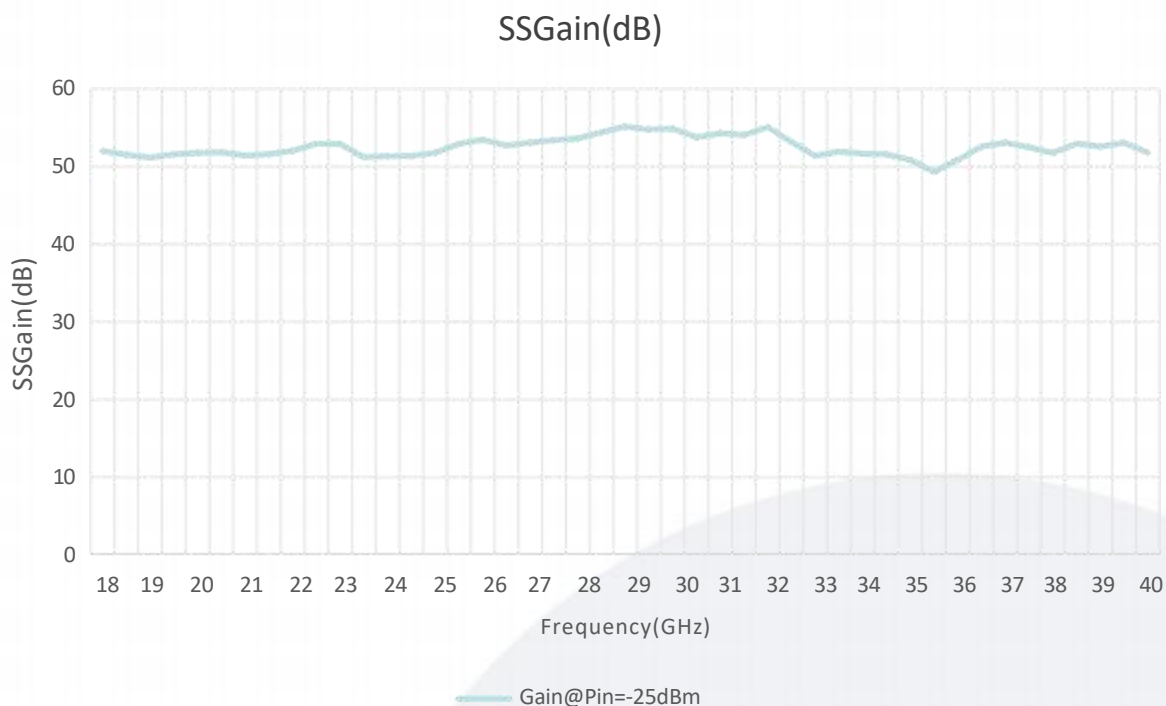
*Note: For a wider temperature range, please consult the manufacturer.

Ordering Information:

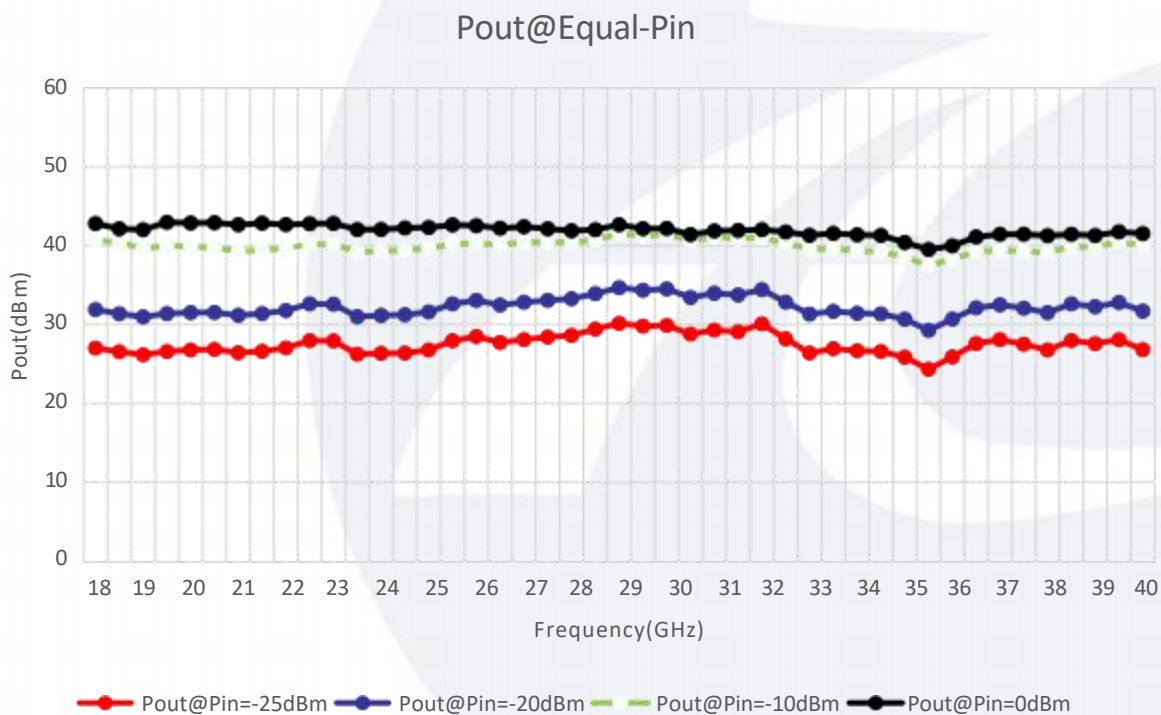
Base Number	Description	Revision
TLPA18G40G-40-40-BC	Solid State High Power Amplifier Systems 18-40GHz,Gain:40dB,Psat:40dBm,220V AC,Built in Fan Cooling	Rev.1.1

Typical Performance Data:

1. 增益 Gain



2. 输出功率 Output Power

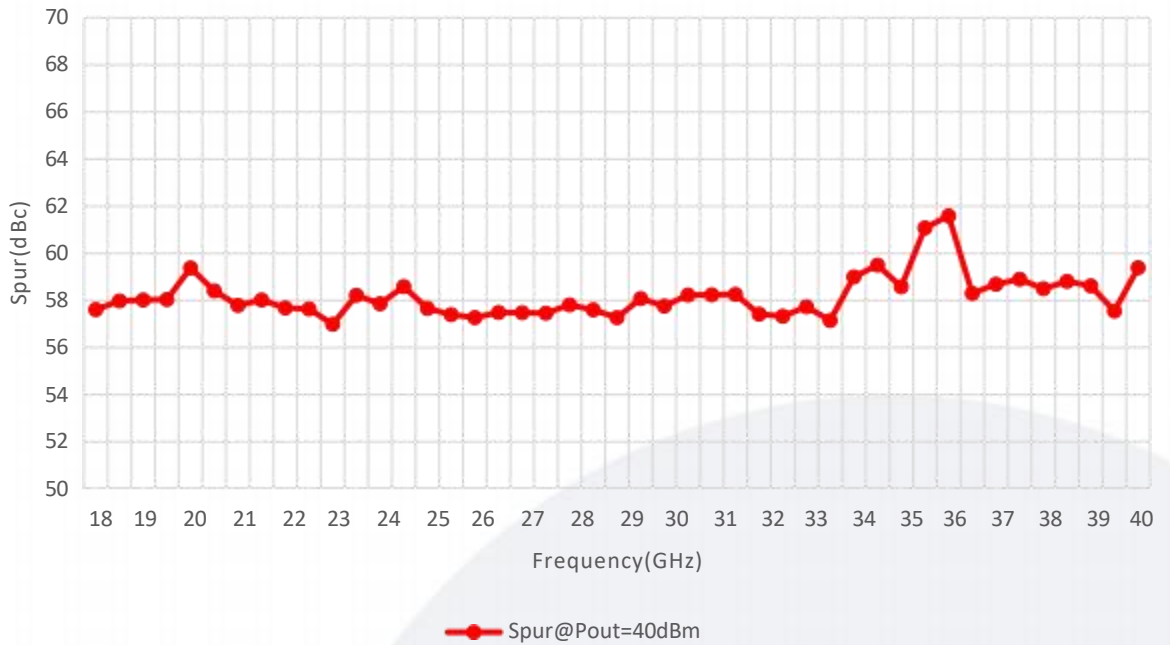


Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

Typical Performance Data:

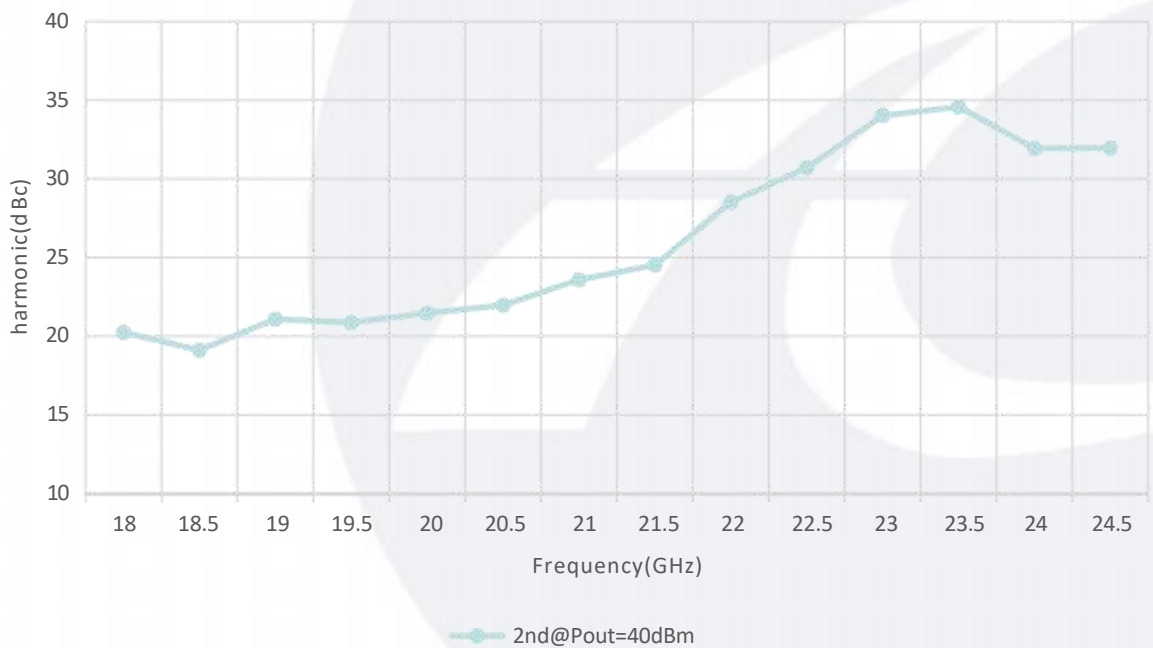
3. 杂散抑制 Spurious

Spur@Pout=40dBm



4. 谐波 Harmonics

Harmonic@Pout=40dBm



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.

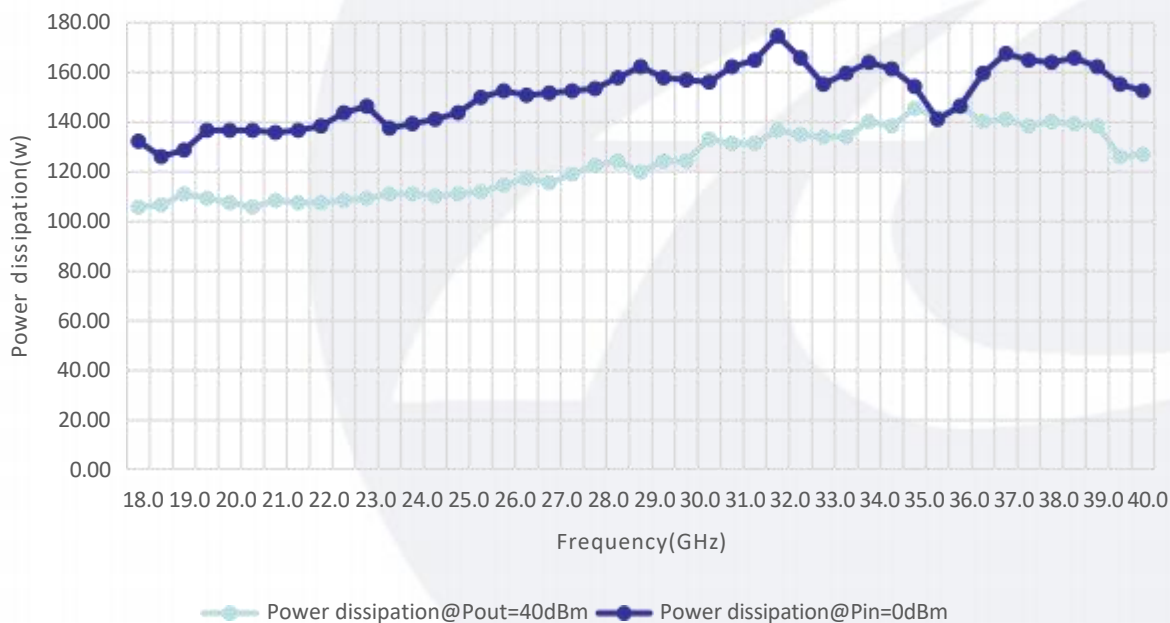
Typical Performance Data:

5. 输入驻波 VSWR



6. 功耗 Power Dissipation

Power dissipation



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.