

Solid State High Power Amplifier Systems

2-8GHz/43dB Gain/43dBm Psat/220V AC

Model: TLPA2G8G-43-43-BC

TLPA2G8G-43-43-BC is a solid state high power amplifier systems provides high output power and high gain across the 2 to 8 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:

- Frequency range: 2-8GHz
- Gain: 43dB Min
- Psat Output Power: 43dBm 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	2		8	GHz
Power Gain	GP	43			dB
Gain flatness	Δ GL		± 3		dB
Output Psat	Psat	43			dBm
Spurious@Pout=43dBm	Spur			-60	dBc
Harmonics@Pout=43dBm	HAM		-20		dBc
Input VSWR	VSWRin			2	:1
AC Voltage	Vac		220		V AC
Power Consumption	Pdiss		200		W
Impedance	I/O-IMP		50		Ohms

Mechanical Specifications:

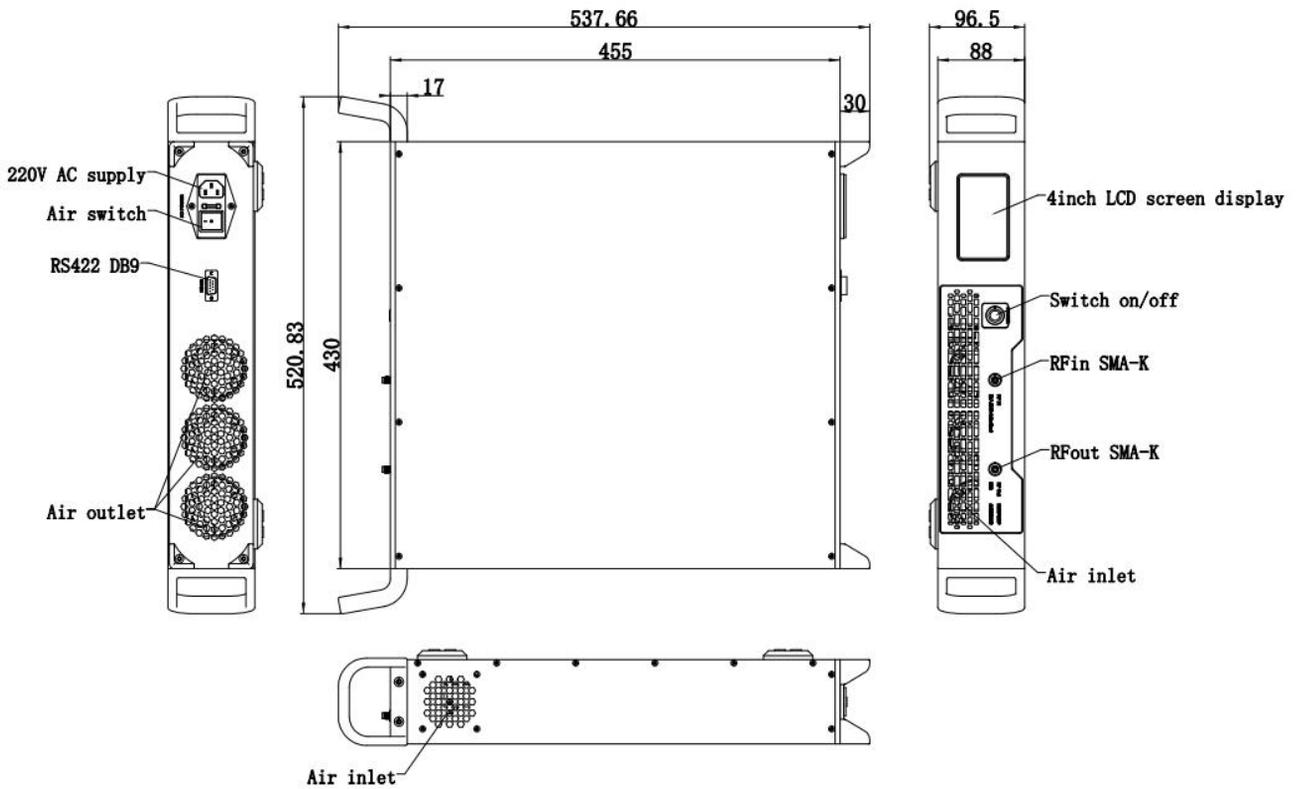
Parameter	Value	Units
Input /Output Connector	SMA Female/ SMA Female	
Communication Connector	DB9/RJ45	
Size	19 Inch 2U*550	mm
Weight	≤ 20	Kg

Absolute Maximum Ratings:

Parameter	Value
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit:mm



Key Features:

Parameter	Advantages
Control functions	1, Power setting on/off 2, Output power adjustment
Display functions	1, Output/reverse power 2, Fault informations
Protection functions	1, Over TEM 2, Over voltage 3, Over current 4, Over VSWR
Remote control	RS422/Ethernet
Cooling system	Built in Cooling system, forced air cooling

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature*	-20		+50	°C
Non-operating Temperature*	-30		+60	°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
TLPA2G8G-43-43-BC	Solid State High Power Amplifier Systems 2-8GHz, Gain:43dB, Psat:43dBm, 220V AC, Built in Fan Cooling	Rev.1.0