

Solid State High Power Amplifier Systems

0.5-6GHz/40dB Gain/40dBm Psat/220V AC

Model: TLPA0.5G6G-40-40-BC

TLPA0.5G6G-40-40-BC is a solid state high power amplifier systems provides high output power and high gain across the 0.5 to 6 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: 0.5-6GHz
- 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	0.5-6			GHz
Power Gain	GP	40			dB
Gain flatness	Δ GL		± 3.5		dB
Output Psat	Psat	40			dBm
Spurious	Spur			-60	dBc
Harmonics	HAM		-10		dBc
Input VSWR	VSWRin			2.0	:1
AC Voltage	Vac		220		V AC
Power Consumption	Pdiss			150	W
Impedance	I/O-IMP	50			Ohms

Mechanical Specifications:

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

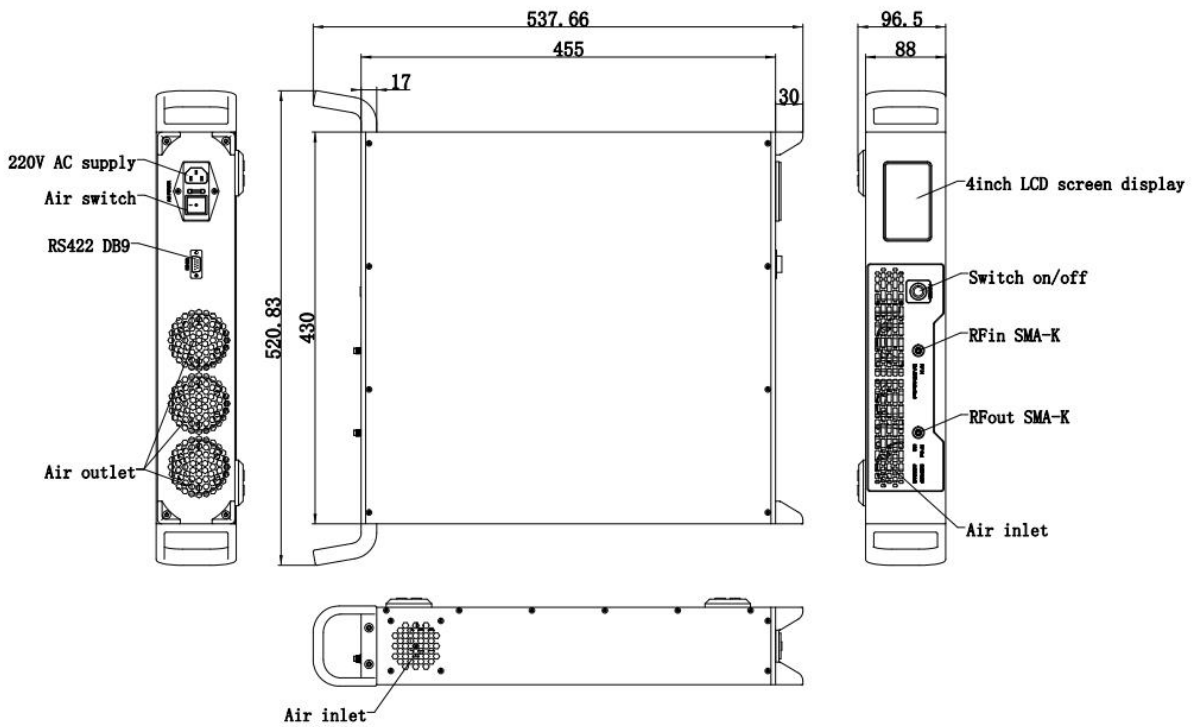
Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	220V AC
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit:mm

Regulatory Compliance:



Key Features:

Parameter	Advantages
Display function	Output power display
Protection functions	1,Over TEM 2,Over voltage 3,Over current 4,Over VSWR
Remote control	RS422,LCD Screen Display
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
TLPA0.5G6G-40-40-BC	Solid State High Power Amplifier Systems 0.5-6GHz,Gain:40dB,Psat:40 dBm,220V AC,Built in Fan Cooling	Rev.1.1