

Solid State High Power Amplifier Systems

50-75GHz/40dB Gain/40dBm Psat/220V AC

Model: TLPA50G75G-40-40-BC

TLPA50G75G-40-40-BC is a solid state high power amplifier systems provides high output power and high gain across the 50 to 75 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: 50-75GHz
- 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	50		75	GHz
Power Gain@Psat	GP	40			dB
Output Psat	Psat	40			dBm
Spurious@Psat	Spur		-50		dBc
AC Voltage	Vac		220		V AC
Power Consumption	Pdiss		300		W
Impedance	I/O-IMP		50		Ohms

Mechanical Specifications:

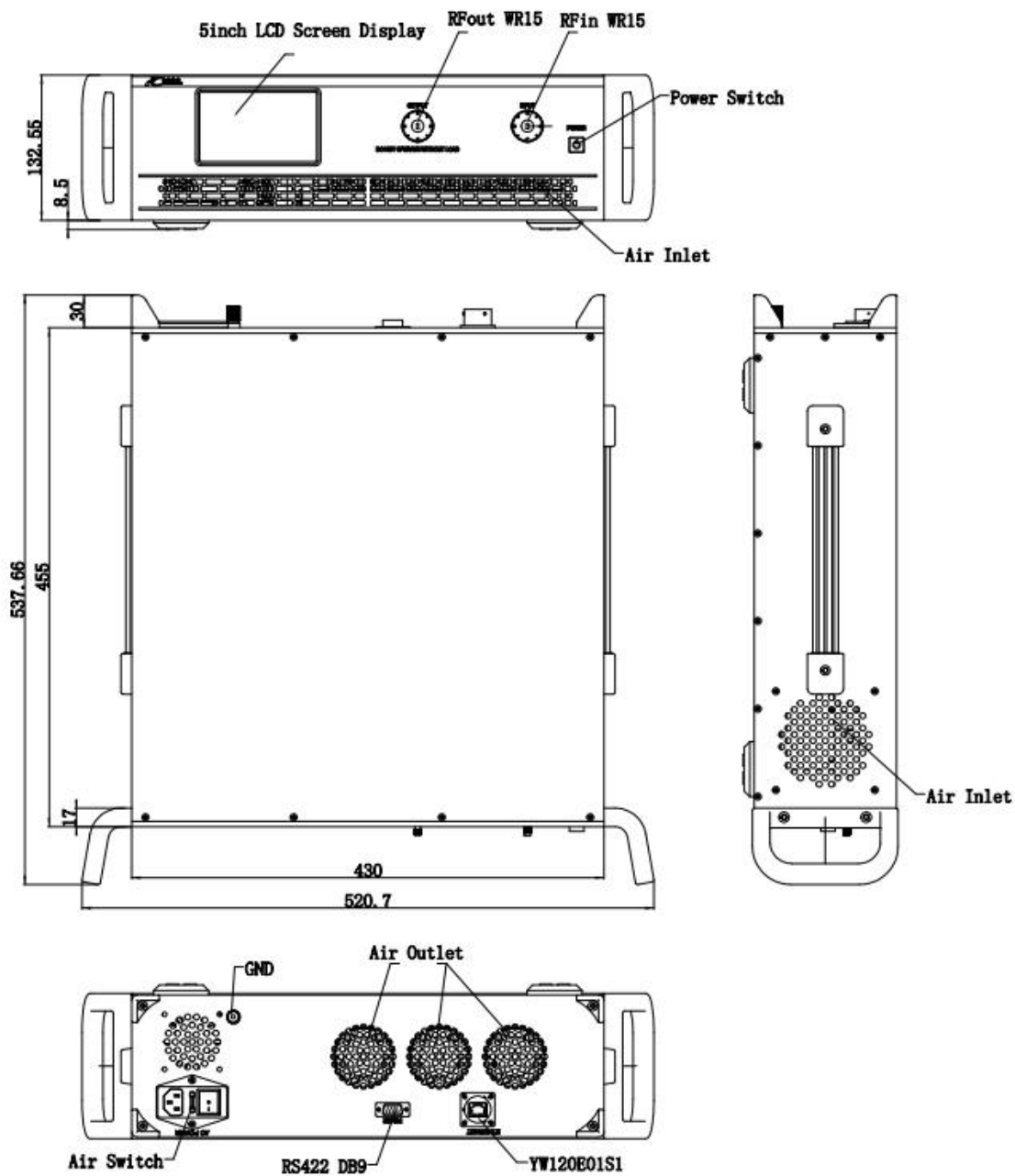
Parameter	Value	Units
Input /Output Connector	WR-15/UG-385/U	
Communication Connector	DB9/RJ45	
Size	19 Inch 3U*550	mm
Weight	≤25	Kg

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
Protection functions	1, Over TEM 2, Over voltage 3, Over current 4, Over VSWR
Display functions	1, Output/reflected power 2, Fault informations
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
TLPA50G75G-40-40-BC	Solid State High Power Amplifier Systems 50-75GHz, Gain:40dB, Psat:40dBm, 220V AC, Built in Fan Cooling	Rev.1.0