

Solid State High Power Amplifier Systems

50-75GHz/37dB Gain/37dBm Psat/220V AC

Model: TLPA50G75G-37-37-BC

TLPA50G75G-37-37-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: 37dB Min
- Psat Output Power: 37dBm Min
- Protection:,over voltage protection
- 50 Ohm Matched Input / Output

Electrical Characteristics:

Parameter	Symbol	Min	Typ	Max	Units
Frequency range	BW	50-75			GHz
Power Gain	GP	37			dB
Output Psat flatness	Δ Psat		± 1.5		dB
Output Psat	Psat	37			dBm
Input VSWR	VSWR _{in}		2.5		:1
AC Voltage	Vac		220		V AC
Power Consumption	Pdiss			120	W
Impedance	I/O-IMP	50			Ohms

Mechanical Specifications:

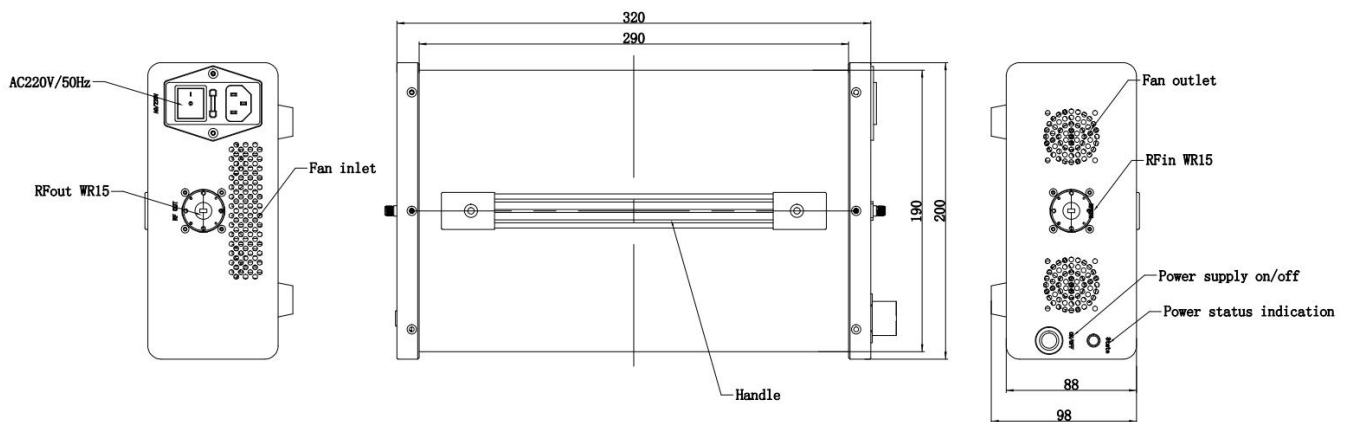
Parameter	Value	Units
Input /Output Connector	WR-15	
Size	320*200*98	mm
Weight	≤ 7.5	Kg

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
Protection functions	Over voltage
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-37-37-BC	Solid State High Power Amplifier Systems 50-75GHz, Gain:37dB, Psat:37dBm, 220V AC, Built in Fan Cooling	Rev.1.1