

Solid State High Power Amplifier Systems

40-50GHz/36dB Gain/36dBm Psat/220V AC

Model: TLPA40G50G-36-35-BC

TLPA40G50G-36-35-BC is a solid state high power amplifier systems provides high output power and high gain across the 40 to 50GHz 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: 40-50GHz
- Gain: 36dB Typ
- Psat Output Power: 36dBm Min
- Protection: Over voltage protection
- 50 Ohm Matched Input / Output

Electrical Characteristics:

Parameter	Symbol	Min	Typ	Max	Units
Frequency range	BW	40-50			GHz
Power Gain	GP	35	36		dB
Output Psat	Psat	36			dBm
Output P1dB	P1dB		47		dBm
Spurious	Spur			-50	dBc
Input VSWR	VSWRin			2.0	: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	2.4mm Female/WR19	
Communication Connector	RJ45	
Size	320*200*88	mm
Weight	≤7.5	Kg

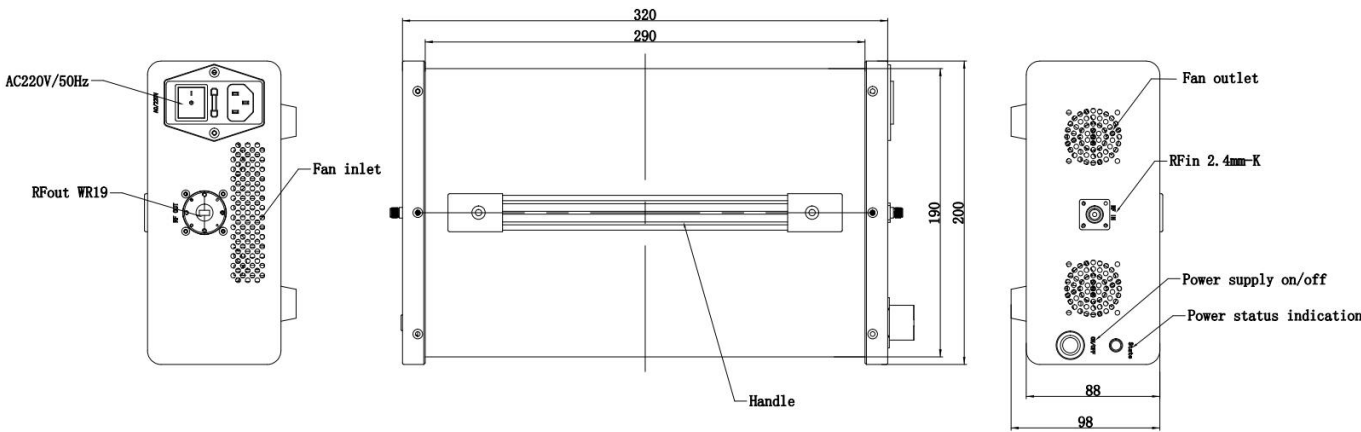
Absolute Maximum Ratings:

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

Outline Drawing:

Unit:mm

Regulatory Compliance:



Key Features:

Parameter	Advantages
Control functions	Power setting on/off
Protection functions	Over voltage
Remote control	RS422
Cooling system	Built in Cooling system,forced air cooling

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature*	0		+40	°C
Non-operating Temperature*	-10		+50	°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
TLPA40G50G-36-35-BC	Solid State High Power Amplifier Systems 40-50GHz, Gain:36dB, Psat:36dBm, 220V AC, Built in Fan Cooling	Rev.1.1