

Solid State High Power Amplifier Systems

40-60GHz /43dB Gain/43dBm Psat/220V AC

Model: TLPA40G60G-43-43-BC

TLPA40G60G-43-43-BC is a solid state high power amplifier systems provides high output power and high gain across the 40 to 60 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:

- Wide Band: 40-60GHz
- 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	40-60			GHz
Gain	GP	43			dB
Gain flatness	ΔGL		± 5		dB
Output Psat	Psat	43			dBm
Spurious	Spur			-50	dBc
Harmonics	HAM			-30	dBc
Input VSWR	VSWRin			2.0	:1
AC Voltage	Vac		220		V AC
Power Consumption	Pdiss	800@Max			W
Impedance	I/O-IMP	50			Ohms

Mechanical Specifications:

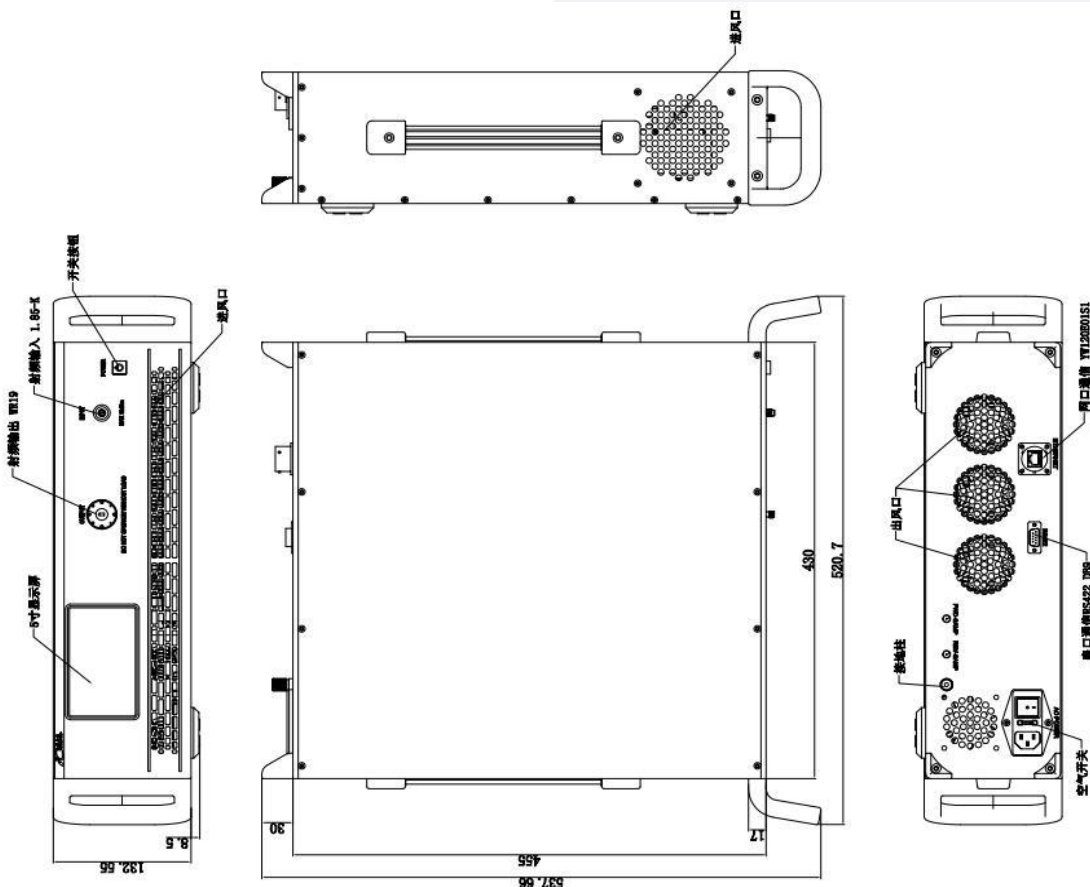
Parameter	Value	Units
Input /Output Connector	1.85 Female/WR19	
Communication Connector	RJ45/DB9	
Front Panel LCD Screen Display	5 Inch LCD Screen Display	
Size	19 Inch 3U	
Weight	30	Kg

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	RS422/Ethernet
Protection functions	1,Over TEM 2,Over voltage 3,Over current protection 4,Over VSWR
Control functions	1, Power setting On/Off 2,ALC
Cooling system	Built in Cooling system,forced air cooling

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature*	-20		+50	°C
Non-operating Temperature*	-45		+65	°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
TLPA40G60G-43-43-BC	Solid State High Power Amplifier Systems 40-60GHz,Gain:43dB,Psat:43dBm,220V AC,Built in Fan Cooling	Rev.1.0