

Solid State High Power Amplifier Systems

40-67GHz/40dB Gain/37dBm Psat/220V AC

Model: TLPA40G67G-40-37-BC

TLPA40G67G-40-37-BC is a solid state high power amplifier systems provides high output power and high gain across the 40 to 67 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: 40-67GHz
- Gain: 40dB Min
- Psat Output Power: 67dBm 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	40-67			GHz
Power Gain	GP	40			dB
Gain adjust Range	Δ GR		20		dB
Gain adjust Step	Δ GS		0.5		dB
Output Psat	Psat	37			dBm
Spurious	Spur			-50	dBc
Input VSWR	VSWR _{in}			2	:1
AC Voltage	Vac		220		V AC
Power Consumption	P _{diss}			200	W
Impedance	I/O-IMP	50			Ohms

Mechanical Specifications:

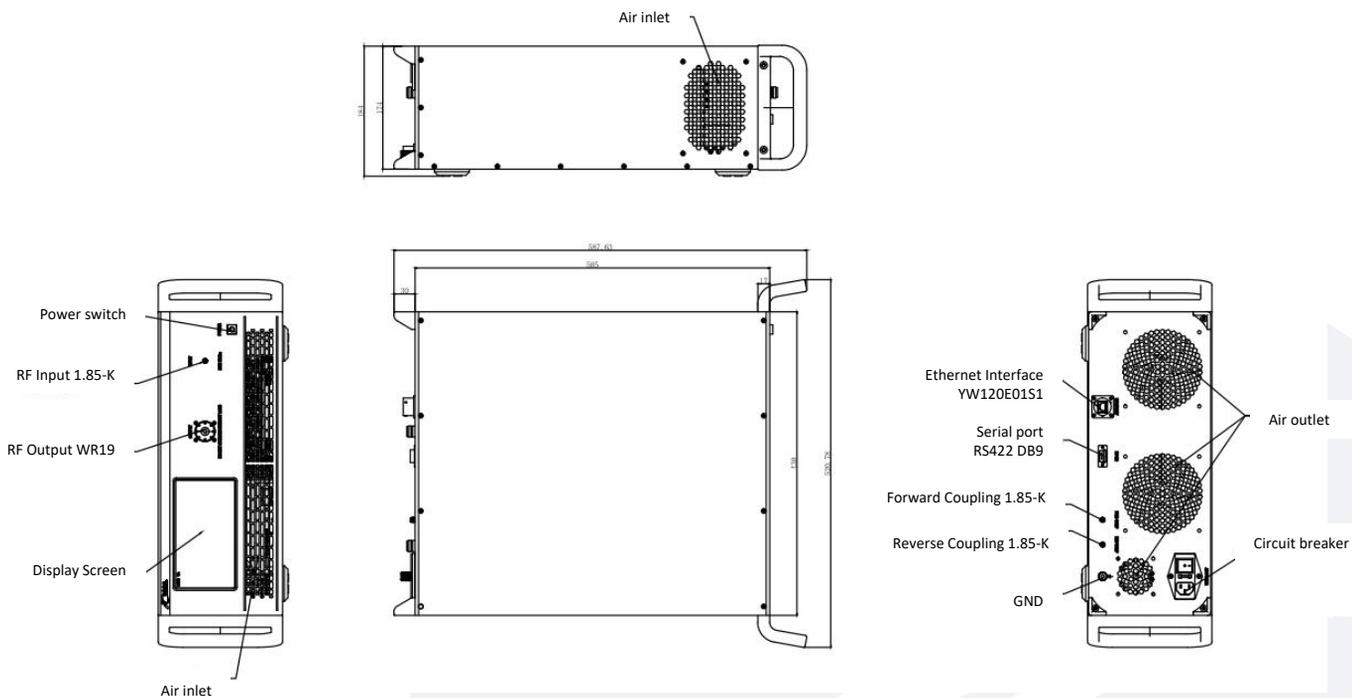
Parameter	Value	Units
Input /Output Connector	1.85mm Female WR19	
Forward/Reverse Coupling	1.85mm Female/1.85mm Female	
Communication Connector	DB9/RJ45	
Size	19 Inch 3U*550	mm
Weight	≤30	Kg

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 functions	1, Power setting On/Off 2, Output power control
Display functions	1, Output/reflected power 2, Fault informations
Protection functions	1, Over TEM 2, Over voltage 3, Over current 4, Over VSWR
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
TLPA40G67G-40-37-BC	Solid State High Power Amplifier Systems 40-67GHz, Gain:40dB, Psat:37 dBm, 220V AC, Built in Fan Cooling	Rev.1.1