

Solid State High Power Amplifier Systems

1-40GHz /40dB Gain/40 dBm Psat/220V AC

Model: TLPA1G40G-40-40-BC -P

TLPA1G40G-40-40-BC is a solid state high power amplifier systems provides high output power and high gain across the 1 to 40 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: 1-40GHz
- 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	1-18			GHz
			18-40			GHz
Gain		GP	40			dB
Gain flatness	@1-18GHz	Δ GL		± 5		dB
	@18-40GHz			± 5		dB
Output Psat		Psat	40			dBm
Spurious@Pout=40dBm		Spur			-60	dBc
Harmonics	@1-18GHz	HAM			-10	dBc
	@18-40GHz				-15	dBc
Input VSWR	@1-18GHz	VSWRin			2.0	:1
	@18-40GHz				2.5	:1
AC Voltage		Vac	220			V AC
Power Consumption	@1-18GHz	Pdis	400@Max			W
	@18-40GHz		300@Max			W
Impedance		I/O-IMP	50			Ohms

Mechanical Specifications:

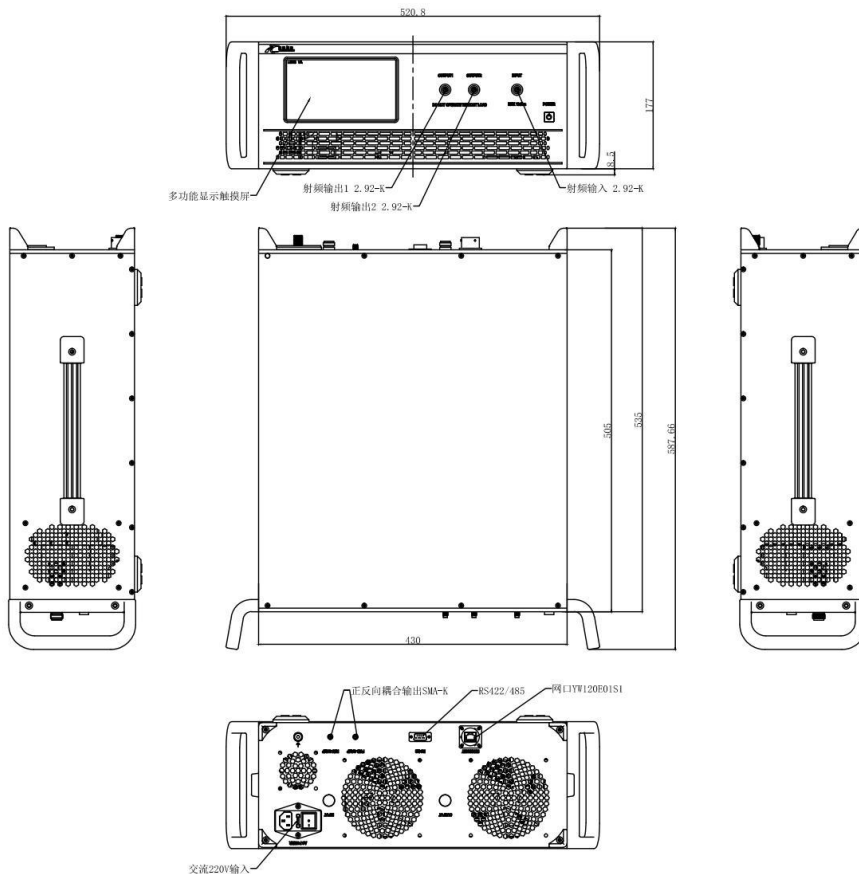
Parameter	Value	Units
Input /Output Connector	2.92 Female/2.92 Female	
Front Panel LCD Screen Display	7 inch LCD Screen Display	
Size	19 Inch 4U	mm
Weight	≤30	Kg

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, ALC automatic level control 3, Frequency Band Switching
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*	-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
TLPA1G40G-40-40-BC-P	Solid State High Power Amplifier Systems 1-40GHz, Gain:40dB, Psat:40 dBm, 220V AC, Built in Fan Cooling	Rev.1.0