

Model:TLPA8G12G-63-63-P-BC

Solid State High Power Amplifier Systems
8-12GHz, Gain:63dB, Peak output
Power:63dBm220V AC

Feature:

- Wide Band:8-12GHz
- Gain: 63dB Min
- Peak Output Power:63dBm Min
- Protection:Over TEM,over voltage, over current ,over VSWR protection.
- 50 Ohm Matched Input / Output



Electrical Specifications:

Parameter	Symbo	Min	Typ	Max	Units
Frequency range	BW	8-12			GHz
Gain	GP	63			ΔG
Peak Output Power	P.P	63	64		dBm
Output power adjust range	ΔPR		20		dB
Output power adjust step	ΔPS		0.5		dB
Output power control accuracy	ΔPA		±1		dB
Duty Cycle	PWM		10	20	%
Pulse Width	PW	0.3		500	us
Modulation frequency	FM	0.5		500	KHz
Rise time	PT		50	100	ns
Fall time	NT		50	100	ns
Spurious	Spur			-60	dBc
Harmonics	HAM		-20		dBc
Input VSWR	VSWRin			2.0	:1
AC Voltage	Vac	220			V AC
Power Consumption@10%	Pdiss	1200@Max			Watts
Impedance	I/O-IMP	50			Ohms

Mechanical Specifications:

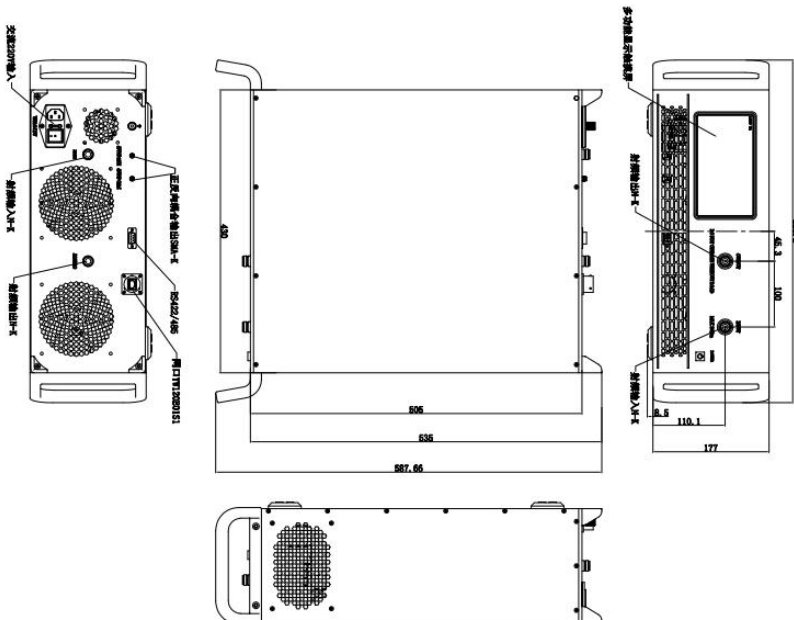
Parameter	Value	Units
Input/Output Connector	N Female WR28	
Control ports	RS422/LAN/GPIB	
Forward/Reverse Coupling Connector	SMA Female/SMA Female	
Pulse Input	TNC Female	
Communication Interfaces	RJ45/DB9	
Size	19 Inch 5U*550 depth	mm
Weight	40	Kg

Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	220V AC
Input Power	10dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit: mm



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Key Features:

Parameter	Advantages
Control	RS422/Ethernet,LCD Screen Display
Protection functions	1,Over TEM 2,Over voltage 3,Over current protection 4,Over VSWR
Control functions	1, Power setting On/Off 2,ALC 3,RF ON/OFF 4,Gain adjustment 5,Real time status query
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	50000			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			

Ordering Information:

Part Number	Description	Revision
TLPA8G12G-63-63-P-BC	Solid State High Power Amplifier Systems 8-12GHz,Gain:63dB,Peak output Power:63dBm,220V AC,Built in Fan Cooling	Rev.1.0