

## Model:TLPA12G18G-63-62-P-BC

## Solid State High Power Amplifier Systems 12-18GHz,Gain:63dB,Peak output Power:62dBm220V AC

### Feature:

- Wide Band:12-18GHz
- Gain: 63dB Min
- Peak Output Power:62dBm 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	12-18			GHz
Gain	GP	63			ΔG
Peak Output Power	P.P	62	63		dBm
Output power adjust range	ΔPR		40		dB
Output power adjust step	ΔPS		0.5		dB
Output power control accuracy	ΔPA		±1		dB
Duty Cycle	PWM			10	%
Pulse Width	PW	0.2		500	us
Modulation frequency	FM	0.2		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	1500			Watts
Impedance	I/O-IMP	50			Ohms

### Mechanical Specifications:

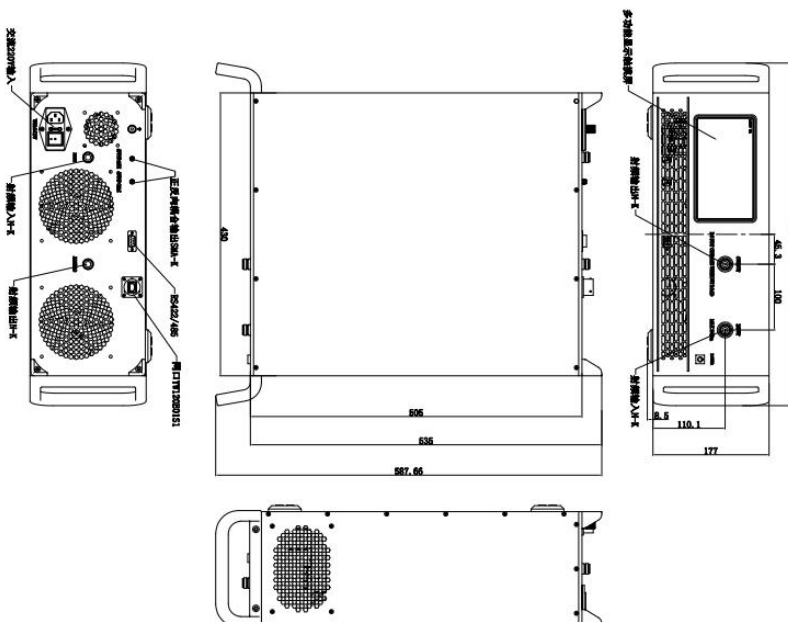
Parameter	Value	Units
Input/Output Connector	N Female/WR62	
Forward/Reverse Coupling Connector	SMA Female/SMA Female	
Front Panel LCD Screen Display	LCD Screen Display	
Communication Interfaces	RJ45/DB9	
Pulse Input	TNC Female	
Size	19 Inch 12U*550 depth	mm
Weight	/	Kg

### Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	220V AC
Input Power	15dBm
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
Indications	1,AC On/Off 2,DC On/Off 3,RF On/Off 4,Fault
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
TLPA12G18G-63-62-P-BC	Solid State High Power Amplifier Systems 12-18GHz,Gain:63dB,Peak output Power:62dBm,220V AC,Built in Fan Cooling	Rev.1.0