

**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


**电气特性 Electrical Specifications:**

参数Parameter	代码 Symbo	Min	Typ	Max	单位Units
频率范围 Frequency range	BW	8-12			GHz
增益 Gain	GP	63			ΔG
峰值输出功率 Peak Output Power	P.P	63	64		dBm
输出功率可调范围 Output power adjust range	ΔPR		20		dB
输出功率可调步进 Output power adjust step	ΔPS		0.5		dB
输出功率调节精度 Output power control accuracy	ΔPA		±1		dB
脉冲占空比 Duty Cycle	PWM		10	20	%
脉冲宽度 Pulse Width	PW	0.3		500	us
调制频率 Modulation frequency	FM	0.5		500	KHz
上升沿时间 Rise time	PT		50	100	ns
下降沿时间 Fall time	NT		50	100	ns
杂散 Spurious	Spur			-60	dBc
谐波 Harmonics	HAM		-20		dBc
输入驻波 Input VSWR	VSWRin			2.0	:1
交流电压 AC Voltage	Vac	220			V AC
功耗 Power Consumption@10%	Pdiss	1200@Max			Watts
阻抗 Impedance	I/O-IMP	50			Ohms

**机械特性 Mechanical Specifications:**

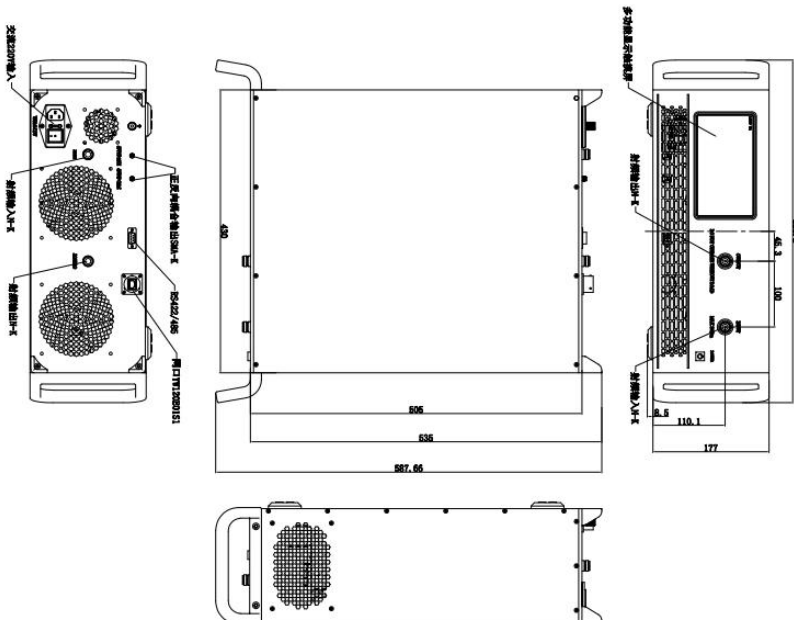
参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input/Output Connector	N Female/WR28	
控制接口 Control ports	RS422/LAN/GPIB	
正向/反向耦合 Forward/Reverse Coupling Connector	SMA Female/SMA Female	
脉冲输入 Pulse Input	TNC Female	
通信接口 Communication Interfaces	RJ45/DB9	
尺寸 Size	19 Inch 5U*550 depth	mm
重量 Weight	40	Kg

**绝对最大值 Absolute Maximum Ratings:**

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	220V AC
输入功率 Input Power	10dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

**外形尺寸 Outline Drawing:**

Unit: mm



OBSERVE PRECAUTIONS  
ELECTROSTATIC SENSITIVE  
DEVICES

**主要功能 Key Features:**

参数 Parameter	特点 Advantages
控制 Control	RS422/Ethernet, LCD Screen Display
内置保护功能 Protection functions	1, Over TEM 2, Over voltage 3, Over current protection 4, Over VSWR
控制功能 Control functions	1, Power setting On/Off 2, ALC 3, RF ON/OFF 4, Gain adjustment 5, Real time status query
冷却系统 Cooling system	Built in Cooling system, forced air cooling

**温度环境 Environmental Conditions:**

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-20		+50	°C
存储温度 Non-operating Temperature	-45		+65	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50000			feet
震动 Shock / Vibration(MIL-STD- 810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave, 3 axis both directions			

**订货信息 Ordering Information:**

标准型号 Part Number	描述 Description	版本号 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