

Solid State High Power Amplifier Systems

200-1000MHz/63dB Gain/63dBm Psat/380V AC Model: TLPA200M1000M-63-63-BC

TLPA200M1000M-63-63-BC is a solid state high power amplifier systems provides high output power and high gain across the 200 to 1000 GHz frequency range. The amplifier features a built-in 380V 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:

- Frequency range: 200-1000MHz
- Gain: 63dB Min
- Psat Output Power: 63dBm Min
- Protection: Over TEM, over voltage, over current, over VSWR protection
- 50 Ohm Matched Input / Output

电气特性 Electrical Characteristics:

参数 Parameter	代码 Symbol	Min	Typ	Max	单位 Units
频率范围 Frequency range	BW	200		1000	MHz
功率增益 Power Gain	GP	63			dB
增益平坦度 Gain flatness	Δ GL			± 4	dB
饱和输出功率 Output Psat	Psat	63			dBm
杂散 Spurious@Pout=63dBm	Spur			-50	dBc
谐波 Harmonics@Pout=63dBm	HAM		-15	-10	dBc
输入驻波 Input VSWR	VSWRin			2	:1
交流电压 AC Voltage	Vac		380		V AC
功耗 Power Consumption	Pdiss			8000	W
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/1 5/8 Female	
正向/反向耦合 Forward/Reverse Coupling	N Female/N Female	
通信接口 Communication Connector	DB9/RJ45	
液晶显示屏 Front Panel LCD Screen Display	7 inch LCD Screen Display	
尺寸 Size	19 Inch 11U*800	mm
重量 Weight	≤ 200	Kg

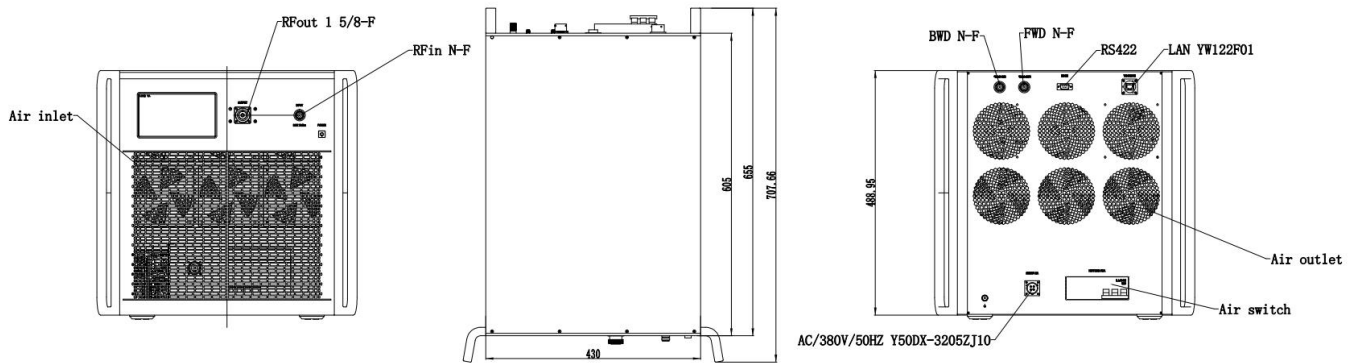
*Note: The RF output interface position may be adjusted.

绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
输入功率 RF Input Power	+5 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形图 Outline Drawing:

Unit:mm; Tolerance:±0.1mm



主要功能 Key Features:

参数 Parameter	特点 Advantages
控制功能 Control functions	1, Power setting on/off 2, RF setting on/off 3, ALC automatic level control
内置保护功能 Protection functions	1, Over TEM 2, Over voltage 3, Over current 4, Over VSWR
监测功能 Monitoring function	1, Temperature 2, Working voltage/current 3, Output power
监控和控制 Remote control	RS422/Ethernet
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		+40	°C
存储温度 Non-operating Temperature*	-30		+50	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	10,000			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			

*Note: For a wider temperature range, please consult the manufacturer.

订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 Revision
TLPA200M1000M-63-63-BC	Solid State High Power Amplifier Systems 200-1000MHz, Gain:63dB, Psat:63dBm, 380V AC, Built in Fan Cooling	Rev.1.0