泰莱微波 Talent Microwave

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Solid State High Power Amplifier Systems

57-64GHz/47dB Gain/47dBm Psat/220V AC Model: TLPA57G64G-47-47-BC

TLPA57G64G-47-47-BC is a solid state high power amplifier systems provides high output power and high gain across the 57 to 64 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:

- Frequency range: 57-64GHz
- Gain: 47dB Min
- Psat Output Power: 47dBm Typ
- 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	57		64	GHz
功率增益 Power Gain@Pout=47dBm	GP	47			dB
增益平坦度 Gain flatness	ΔGL		±5		dB
线性输出功率 Output P1dB	P1dB	40			dBm
饱和输出功率 Output Psat	Psat		47		dBm
杂散 Spurious@Pout=47dBm	Spur			-5	dBc
输入驻波 Input VSWR	VSWRin		2	3	:1
交流电压 AC Voltage	Vac		220		V AC
功耗 Power Consumption	Pdiss			700	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	1.85mm Female/WR-15/UG-387/U	
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 4U*550 depth	mm
重量 Weight	≤35	Kg

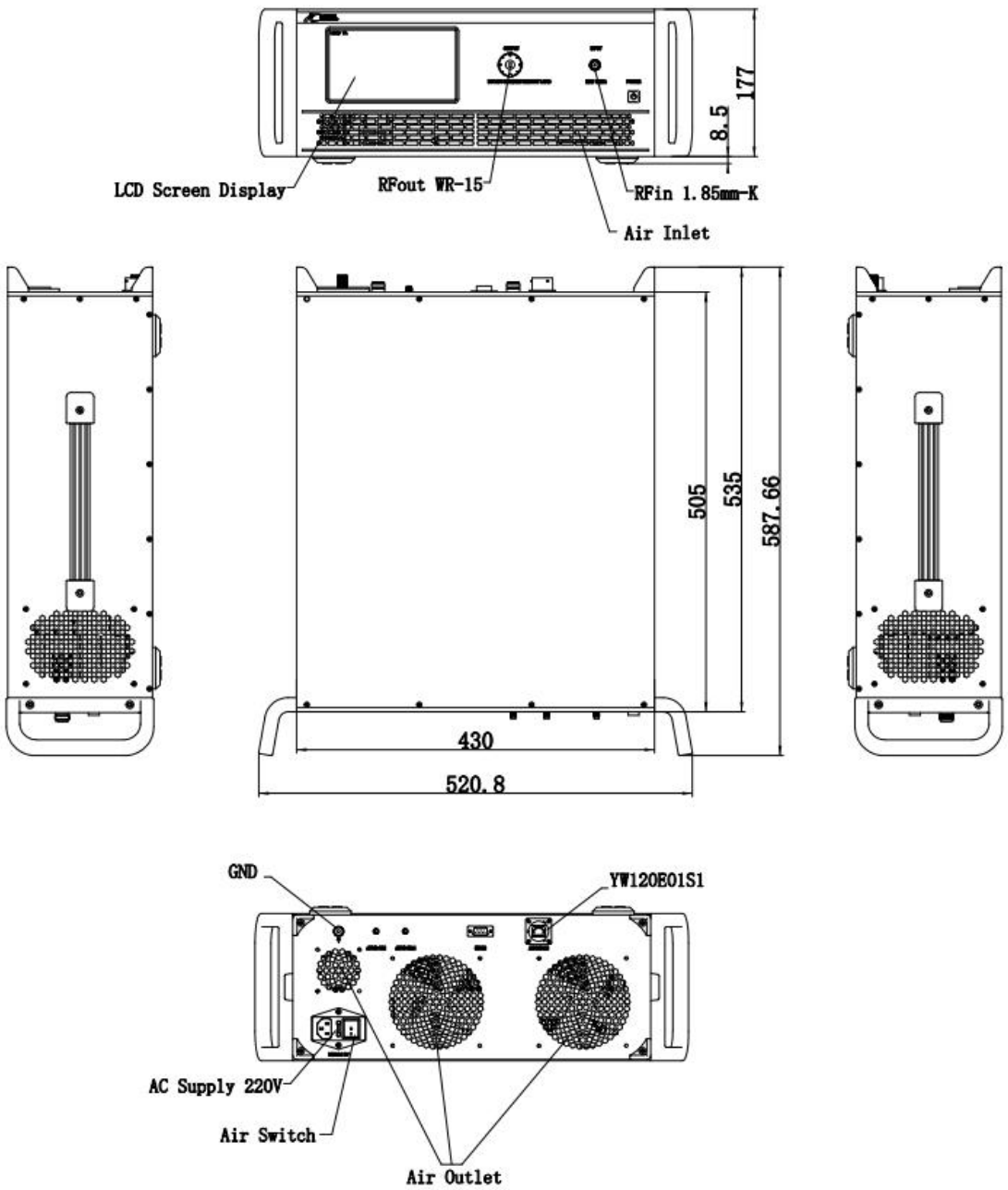
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绝对最大值 Absolute Maximum Ratings:

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



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主要功能 Key Features:

参数 Parameter	特点 Advantages
控制功能 Control functions	1, Power setting on/off 2, Output power adjustment
内置保护功能 Protection functions	1, Over TEM 2, Over voltage 3, Over current 4, Over VSWR
显示功能 Display functions	1, Output/reflected power 2, Fault informations
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	℃
存储温度 Non-operating Temperature*	-30		+50	℃
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
TLPA57G64G-47-47-BC	Solid State High Power Amplifier Systems 57-64GHz,Gain:47dB,Psat:47dBm,220V AC,Built in Fan Cooling	Rev.1.0