

Solid State High Power Amplifier Systems

2.5-8GHz /57dB Gain/57 dBm Psat/380V AC

Model: TLPA2.5G8G-57-57-BC

TLPA2.5G8G-57-57-BC is a solid state high power amplifier systems provides high output power and high gain across the 2.5 to 8 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:

- Wide Band: 2.5-8 GHz
- Gain: 57dB Min
- Psat Output Power:57dBm Typ
- Protection:Over TEM,over voltage, over current ,output mismatch 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	2.5-8			GHz
增益 Gain	GP	57			dB
增益平坦度 Gain flatness	ΔGL		± 4		dB
饱和输出功率 Output Psat	Psat	56	57		dBm
杂散 Spurious@Pout=57dBm	Spur		-60	-50	dBc
谐波 Harmonics@Pout=57dBm	HAM		-15	-10	dBc
输入驻波 Input VSWR	VSWRin			2.0	:1
交流电压 AC Voltage	Vac		380		V AC
交流功耗AC Input Power	Pdiss	5000@Max			W
阻抗 Impedance	I/O-IMP	50			Ohms

机械特性 Mechanical Specifications:

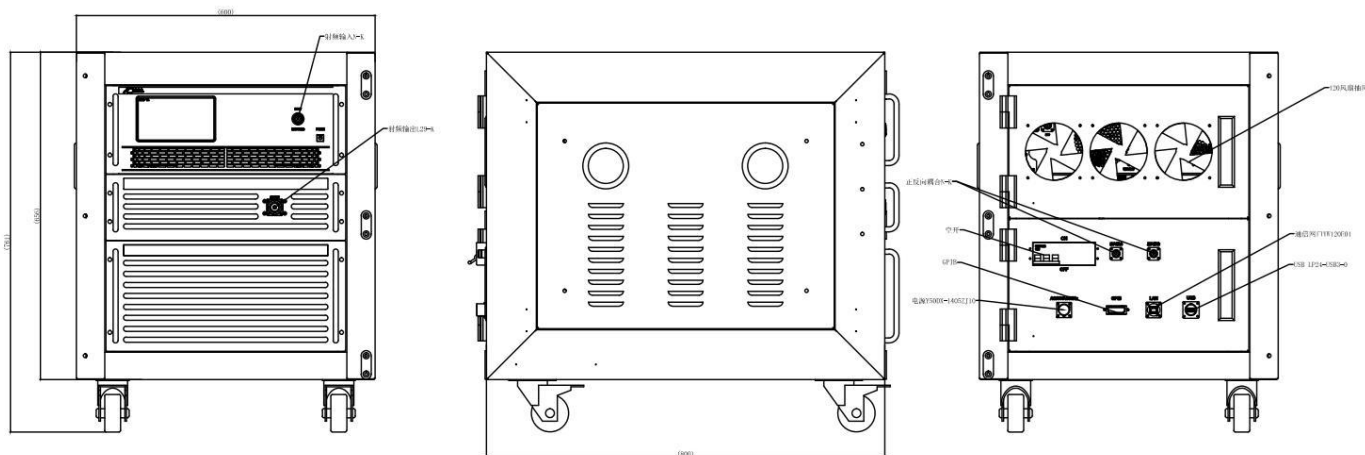
参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	N Female/L29 Female orWRD250	
尺寸 Size	12U	mm
重量 Weight	150	Kg

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



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, Output mismatch
通信功能 Communication functions	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*	0		+40	°C
存储温度 Non-operating Temperature*	-45		+85	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	10,000			feet
冲击/震动 Shock / Vibration(MIL-STD- 810F)	Normal Truck Trans			

*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
TLPA2.5G8G-57-57-BC	Solid State High Power Amplifier Systems 2.5-8GHz, Gain:57dB, Psat:57 dBm, 380V AC, Built in Fan Cooling	Rev.1.0