

Solid State High Power Amplifier Systems

0.8-4.2GHz /57 dB Gain/56 dBm Psat/380V AC

Model: TLPA0.8G4.2G-57-56-BC

TLPA0.8G4.2G-57-56-BC is a solid state high power amplifier systems provides high output power and high gain across the 0.8 to 4.2 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: 0.8-4.2GHz
- Gain: 57dB Min
- Psat Output Power:56dBm 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	0.8-4.2			GHz
增益 Gain	GP	57			dB
增益平坦度 Gain flatness	ΔGL		± 3		dB
饱和输出功率 Output Psat	Psat	56			dBm
增益调节步进/范围 Gain adjust step/range	Gadj	0.5/31.5			dBm
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	380			V AC
交流电流 AC Supply Current	Iac	2800@Max			W
阻抗 Impedance	I/O-IMP	50			Ohms

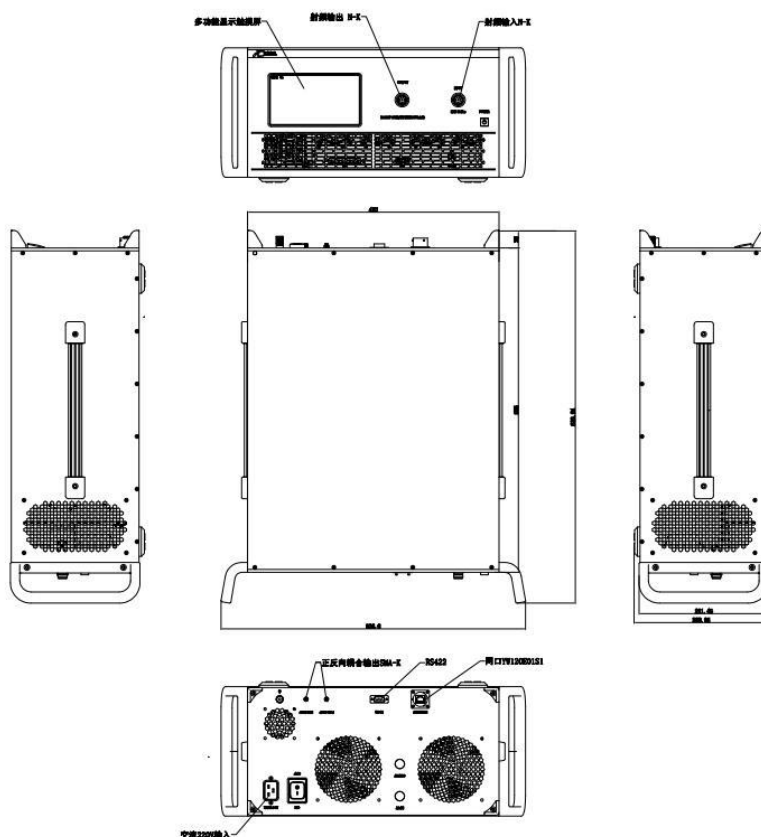
机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	N Female/N Female	
正向/反向耦合 Forward/Reverse Coupling Connector	SMA Female/SMA Female	
通信接口 Communication port	RJ-45/DB9	
尺寸 Size	19 inch5U	mm
重量 Weight	45	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 Control	RS422/Ethernet
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
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	℃
存储温度 Non-operating Temperature*	-20		+85	℃
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
TLPA0.8G4.2G-57-56-BC	Solid State High Power Amplifier Systems 0.8-4.2GHz,Gain:57dB,Psat:56dBm,380V AC,Built in Fan Cooling	Rev.1.1