

Model: TLPA1G2.5G-54-54-BC
**Solid State High Power Amplifier Systems
 1-2.5GHz, Gain: 54dB, Psat: 54dBm, 220V AC**
Feature:

- Ultra Wide Band: 1-2.5GHz
- Gain: 54dB Min
- Psat Output Power: 54dBm Min
- Protection: Over TEM, over voltage, over current protection.
- 50 Ohm Matched Input / Output

电气特性 Electrical:

参数Parameter	代码Symbol	Min.	Typ.	Max.	单位Units
频率范围 Frequency range	BW	1-2.5			GHz
增益 Power Gain	Gp	54			dB
增益平坦度 Gain flatness	Δ GL		± 3		dB
饱和输出功率 Psat	Psat	54			dBm
线性输出功率 P1dB	P-1		50		dBm
输入功率 Input Power	Pin		0	10	dBm
杂散 Non-Harmonic Spurious	Spur	60			dBc
谐波 Harmonics@Pout=50W	HAM	10			dBc
输入驻波 Input VSWR	VSWRin			2.0	:1
交流电压 AC Voltage	Vac	220/50Hz			V AC
功耗 Power Consumptio				1000	W
阻抗 Impedance	I/O-IMP	50			Ohms

机械特性 Mechanical :

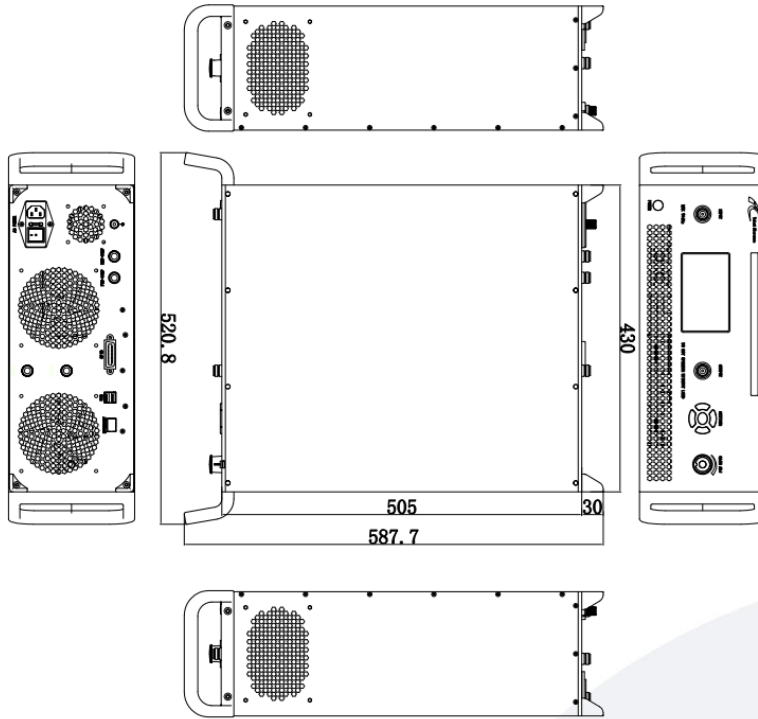
参数Parameter	指标 Value	单位 Units
输入输出接口 Input /Output Connector	N Female	
尺寸 Size	19 Inch 5U	
重量 Weight	35	Kg

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 RF Input Power	10 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形尺寸 Outline Drawing:

Unit: mm(Inches)



主要功能 Key Features:

参数 Parameter	特点 Advantages
控制 Control	RS442/Ethernet, LCD Screen Display
控制功能 Control functions	1, Power setting On/Off 2, ALC
内置保护功能 Protection functions	1, Over TEM 2, Over voltage 3, Over current protection 4, VSWR protection
冷却系统 Cooling system	Front to back forced air cooling fans makes this ideal for usage in test equipment racks

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	50,000			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			

订货信息 Ordering Information:

标准型号 Part Number	描述 Description	版本号Revision
TLPA1G2.5G-54-54-BC	Solid State High Power Amplifier Systems, 1-2.5GHz, Gain:54dB, Psat:54dBm, 220V AC	Rev.1.0