

**Model: TLPA0.8G4.2G-57-56-BC**
**Solid State High Power Amplifier Systems  
 0.8-4.2GHz, Gain: 57dB, Psat: 56dBm, 380V AC**
**Feature:**

- Ultra 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:**

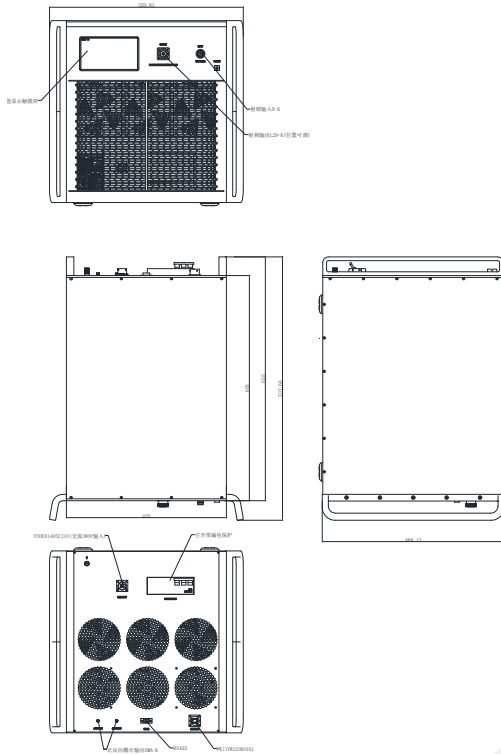
参数Parameter	代码Symbol	Min.	Typ.	Max.	单位Units
频率范围 Frequency range	BW	0.8-4.2			GHz
增益 Power Gain	Gp	57			dB
增益平坦度 Gain flatness	$\Delta$ GL			$\pm 1.5$	dB
增益调节步进/范围 Gain adjustment step/range	Gadj	31.5/0.5			dB
饱和输出功率 Psat	Psat	56			dBm
杂散 Non-Harmonic Spurious	Spur	50			dBc
谐波 Harmonics	HAM	20			dBc
输入驻波 Input VSWR	VSWRin			2.0	:1
交流电压 AC Voltage	Vac	380/50Hz			V AC
功耗 Power Consumptio	Pdiss			12	KW
阻抗 Impedance	I/O-IMP	50			Ohms

**机械特性 Mechanical :**

参数Parameter	指标 Value	单位Units
输入接口 Input Connector	N Female	
输出接口 Output Connector	L29-F	
正向采样 50 $\pm$ 1dB	SMA-F	
反向采样 50 $\pm$ 1dB	SMA-F	
通信接口 Communication Interfaces	RJ45/DB9	
尺寸 Size	12U*650mm	
重量 Weight	85	kg

外形尺寸 Outline Drawing:

Unit: mm(Inches)



主要功能 Key Features:

参数 Parameter	特点 Advantages
控制 Control	RS422/Ethernet
控制功能 Control functions	1, Power setting On/Off 2, ALC 3, RF setting On/Off 4, Open loop gain control
内置保护功能 Protection functions	1, Over TEM 2, Over voltage 3, Over current protection 4, Over 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	-20		+75	°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
TLPA0.8G4.2G-57-56-BC	Solid State High Power Amplifier Systems, 0.8-4.2GHz,Gain:57dB,Psat:56dBm,380V AC	Rev.1.0