

**Model:TLPA2G18G-53-53-P-BC**
**Solid State High Power Amplifier Systems  
 2-18GHz,Gain:53dB,Psat:53 dBm,220V AC**
**Feature:**

- Wide Band: 2-18GHz
- Gain: 53dB Min
- Psat Output Power:53dBm Min
- Working mode:Pulse only
- Protection:Over TEM,over voltage, over current ,over VSWR protection.
- 50 Ohm Matched Input / Output

**电气特性 Electrical Specifications:**

参数Parameter	代码 Symbo	Min	Typ	Max	单位Units
频率范围 Frequency range	BW	2-18			GHz
工作模式 Working mode		PULSE ONLY			
功率增益 Power Gain@Pout=68dBm	SSGP	53			dB
增益平坦度 Gain flatness	$\Delta$ GL		$\pm 3$		dB
饱和输出功率 Output Psat	Psat	53			dBm
杂散 Spurious@Pout=2kW	Spur			-55	dBc
谐波 Harmonics@Pout=2kW	HAM		-15	-10	dBc
调制信号电平 Modulation Signal Level	TTL	0		5	V
调制频率 Modulation Frequency	MF	1		100	KHz
脉冲宽度 Pulse Width	T	0.3		500	us
占空比 Duty Cycle	$\tau$	0.1		20	%
上升/下降沿 Rise/Fall Time	Tr		50	100	ns
脉冲输入 Pulse Input		TTL level, 50 ohm nominal termination			
顶降 Pulse Drop@T=100us	Pdrop		0.5	1	dB
启动延迟 Star Delay	DSU		150		ns
关断延迟 Shutoff Delay	TOF		250		ns
输入驻波 Input VSWR	VSWR		1.5	2	:1
交流电压 AC Voltage	Vac	220 VAC( $\pm 10\%$ ), Single phase, 50Hz( $\pm 10\%$ )			V AC
20%占空比功耗 Power consumption@20%	Pdiss	700/1200			W
输出功率控制 Output power control (Power Variation)	OPC		20		dB
输入调制信号电平 TTL Voltage	TTL	0		5	V
阻抗 Impedance	I/O-IMP	50			Ohms

**机械特性 Mechanical Specifications:**

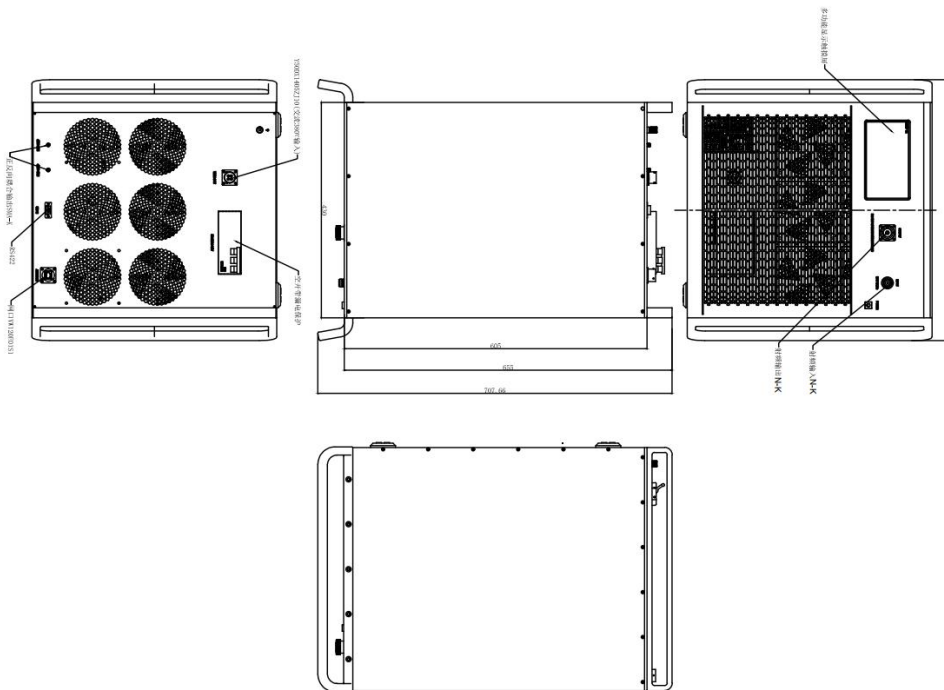
参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	N Female/N Female	
正向/反向耦合 Forward/Reverse Coupling	SMA Female/SMA Female	
液晶显示屏 Front Panel LCD Screen Display	7 inch LCD Screen Display	
脉冲输入接口 Pulse Input Connector	BNC Female	
通信接口 Communication Connector	DB9/RJ-45	
尺寸 Size	19 Inch 8U*800 depth	mm
重量 Weight	≤100	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

**外形尺寸 Outline Drawing:**

Unit: mm



OBSERVE PRECAUTIONS  
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DEVICES

**主要功能 Key Features:**

参数 Parameter	特点 Advantages
控制功能 Control functions	1, Power setting On/Off
内置保护功能 Protection functions	1, Over TEM 2, Over voltage 3, Over current protection 4, Over VSWR
监控和控制 Remote control	RS422/LAN, LCD Screen Display
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	0		+40	°C
存储温度 Non-operating Temperature	-45		+65	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50000			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
TLPA2G18G-53-53-P-BC	Solid State High Power Amplifier Systems 2-18GHz, Gain:53dB, Psat:53 dBm, 220V AC, Built in Fan Cooling	Rev.1.0