

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

Electrical Specifications:

Parameter	Symbo	Min	Typ	Max	Units
Frequency range	BW	2-18			GHz
Working Mode	MOD	PULSE ONLY			
Power Gain@Pout=68dBm	GP	53			dB
Gain flatness	ΔGL		± 3		dB
Output Psat	Psat	53			dBm
Spurious@Pout=2kW	Spur			-55	dBc
Harmonics@Pout=2kW	HAM		-15	-10	dBc
Modulation Signal Level	TTL	0		5	V
Modulation Frequency	MF	1		100	KHz
Pulse Width	T	0.3		500	us
Duty Cycle	τ	0.1		20	%
Rise/Fall Time	Tr		50	100	ns
Pulse Input	TTL level, 50 ohm nominal termination				
Pulse Drop@T=100us	Pdrop		0.5	1	dB
Star Delay	DSU		150		ns
Shutoff Delay	TOF		250		ns
Input VSWR	VSWR		1.5	2	:1
AC Voltage	Vac	220 VAC($\pm 10\%$), Single phase, 50Hz($\pm 10\%$)			V AC
Power consumption@20%	Pdiss	700/1200			W
Output power control (Power Variation)	OPC		20		dB
Impedance	I/O-IMP	50			Ohms

Mechanical Specifications:

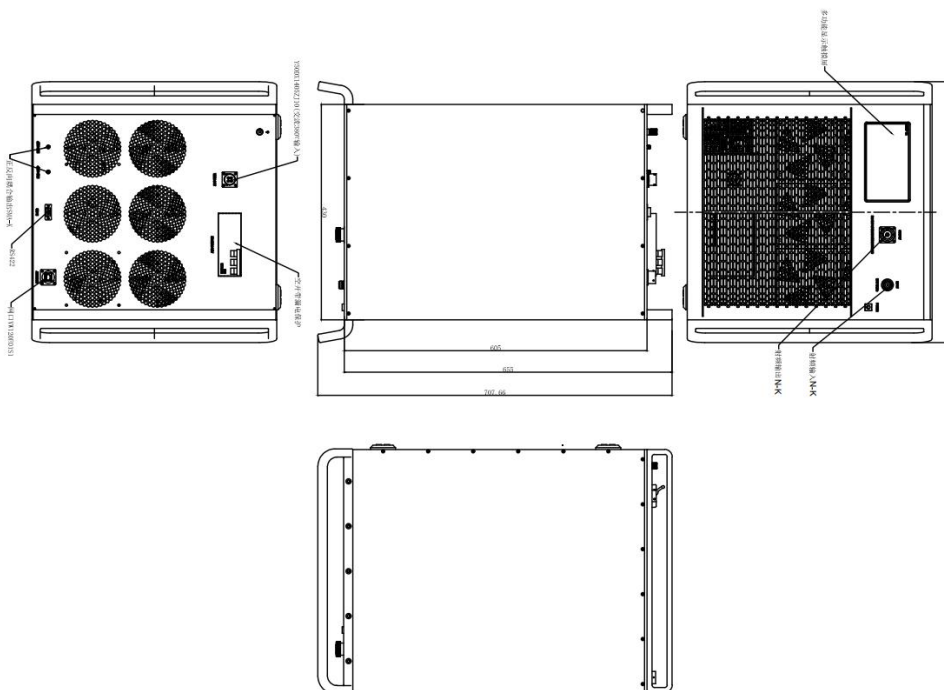
Parameter	Value	Units
Input /Output Connector	N Female/N Female	
Forward/Reverse Coupling	SMA Female/SMA Female	
Front Panel LCD Screen Display	7 inch LCD Screen Display	
Pulse Input Connector	BNC Female	
Communication Connector	DB9/RJ-45	
Size	19 Inch 8U*800 depth	mm
Weight	≤100	Kg

Absolute Maximum Ratings:

Parameter	Value
RF Input Power	5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit: mm



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Key Features:

Parameter	Advantages
Control functions	1, Power setting On/Off
Protection functions	1, Over TEM 2, Over voltage 3, Over current protection 4, Over VSWR
Remote control	RS422/LAN, LCD Screen Display
Cooling system	Front to back forced air cooling fans makes this ideal for usage in test equipment racks

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature*	-20		+40	°C
Non-operating Temperature*	-30		+50	°C
Relative humidity		95		%
Altitude	10000			feet
Shock / Vibration(MIL-STD- 810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave, 3 axis both directions			

*Note: For a wider temperature range, please consult the manufacturer.

Ordering Information:

Part Number	Description	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