泰莱微波
Talent Microwave

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Model:TLPA2G6G-53-53-BC

Solid State High Power Amplifier Systems 2-6GHz,Gain:53dB,Psat:53 dBm,220V AC

Feature:

- Wide Band: 2-6GHz
- Gain: 53dB Min
- Psat Output Power:53dBm Min
- 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	2-6			GHz
Gain	GP	53	55		dB
Gain flatness	ΔGL		±3.5		dB
Output Psat	Psat	53			dBm
Output P1dB	P1dB		49		dBm
Gain adjust range@0.5dB step	ΔGR		31.5		dB
Spurious@Pout=53dBm	Spur			-60	dBc
Harmonics@Pout=53dBm	HAM		-10		dBc
Input VSWR	VSWRin			2.0	:1
AC Voltage	Vac		220		V AC
AC Supply Current	Iac	10A@220V AC			A
Impedance	I/O-IMP	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	N Female/N Female	
Front Panel LCD Screen Display	7 inch LCD Screen Display	
Size	19 Inch 4U*600	mm
Weight	≤30	Kg

Absolute Maximum Ratings:

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

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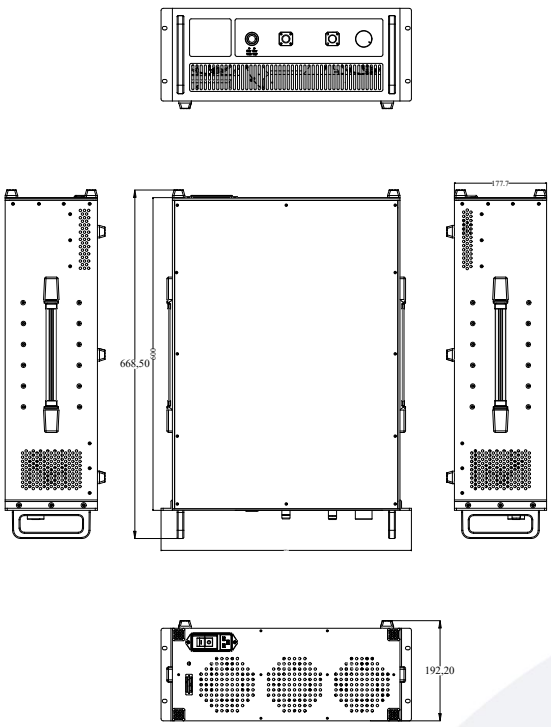
Outline Drawing:

Unit: mm



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

D-SUB,15-Pin,Female:

Pin	Identification	Function specification
1	Reset	When the amplifier triggers overcurrent or standing wave protection, the amplifier will be turned off and enter a state of lockout. Placing a 10ms high level on this pin will restart the amplifier. Only overcurrent or standing wave protection can be reset.
2	Over voltage	When the supply voltage exceeds 32V, the power amplifier will be turned off. This pin will output a high level. When the supply voltage is lower than 32V, this pin will output a low level.
3	Over current	When the power amplifier current exceeds the limit, the power amplifier will be closed and enter the state lock, this pin will output a high level.
4	Over Temp	When the temperature of the power amplifier shell is greater than 85°C, the power amplifier will be closed, and this pin will output a high level. When the temperature of the power amplifier shell is reduced to 70°C, the power amplifier will return to normal operation, and this pin will output a low level.
5	Over VSWR	When the load VSWR of the power amplifier output is greater than 5, the power amplifier will be turned off. This pin will output a high level. When the external VSWR is less than 5, this pin outputs a low level.

Note： Control voltage is 5V

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D-SUB,15-Pin,Female:

Pin	Identification	Function specification
6	Enable	Amplifier enable end, 5V or open to turn on the amplifier. This pin is grounded to turn off the amplifier.
7	GND	GND
8~15	NC	No internal connection

Note：Control voltage is 5V

Kye 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
Cooling system	Built in Cooling system,forced air cooling

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature*	-20		+40	℃
Non-operating Temperature*	-30		+50	℃
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
TLPA2G6G-53-53-BC	Solid State High Power Amplifier Systems 2-6GHz, Gain:53dB,Psat:53 dBm,220V AC,Built in Fan Cooling	Rev.1.0