

Model:TLPA0.5G6G-53-50-WATERPROOF

Power Amplifier

0.5-6GHz,Gain:53dB,Psat:50dBm

Feature:

- Wide Band: 500MHz-6GHz
- Gain: 53dB Min
- Psat Output Power:50dBm Typ
- Good Power and Gain Flatness.
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Symbo	Min	Typ	Max	Min	Typ	Max	Units
Frequency range	BW	0.5-0.7			0.7-6			GHz
Gain	GP	53	56		53	53		dB
Gain flatness	Δ GL		± 1	± 2		± 4	± 5	dB
Output Psat	Psat	44	46		50	50.5		dBm
Spurious	Spur			-60			-60	dBc
Harmonics	HAM			-10			-10	dBc
Input VSWR	VSWRin		1.5	2.0		1.5	2.0	:1
DC Voltage	V	26	28	30	26	28	30	V
DC Supply Current	Iac	24						A
Impedance	I/O-IMP	50						Ohms

Mechanical Specifications:

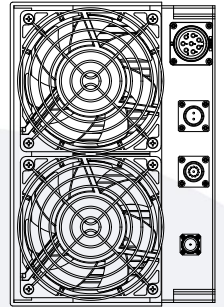
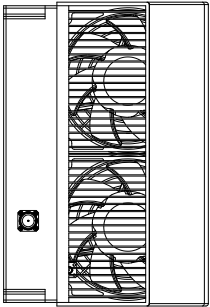
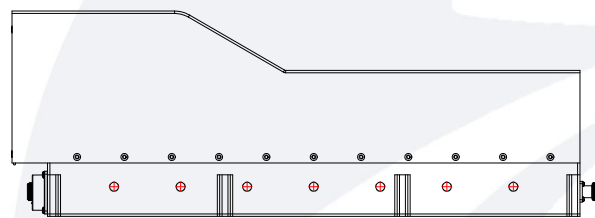
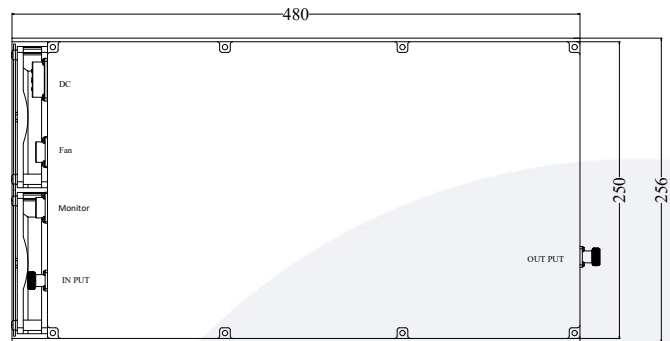
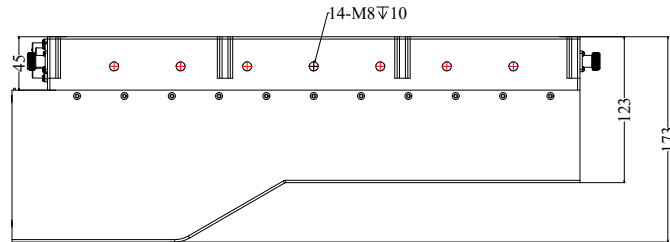
Parameter	Value	Units
Input /Output Connector	N Female/N Female	
Size	480*256*173	mm
Weight	-	Kg

Absolute Maximum Ratings:

Parameter	Value
RF Input Power	3 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit: mm



Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-40		+50	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	50000			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			

Ordering Information:

Part Number	Description	Revision
TLPA0.5G6G-53-50-WATERPROOF	Power amplifier 0.5-6GHz,Gain:53dB,Psat:50dBm, +28V DC,With Heatsink	Rev.1.0

DC Interface Connector:

Pin #	Description	Specification
1	VCC	+26.0-30.0VDC
2	VCC	+26.0-30.0VDC
3	VCC	+26.0-30.0VDC
4	VCC	+26.0-30.0VDC
5	GND	Ground
6	GND	Ground
7	GND	Ground
8	GND	Ground

Fan Connector:

Pin #	Description	Specification
1	VCC	+23.0-25.0VDC
2	GND	Ground

Monitor and control interface:

Pin #	Description	Specification
1	RESET	Resets PA when logic LOW is applied and released (Internally Pulled-High)
2	Over Voltage	TTL Logic High (5V) = Fault (Internally Pulled-Low)
3	Over Current	TTL Logic High (5V) = Fault (Internally Pulled-Low)
4	Over Temperature	TTL Logic High (5V) = Fault (Internally Pulled-Low)
5	Over VSWR	TTL Logic High (5V) = Fault (Internally Pulled-Low)
6	EN	Amplifier Enable: TTL High (5V) (Internally Pulled-High)
7	GND	Ground
8-15	NC	No Connection