泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
+86-0512-62657975
sales@talentmw.com
www.talentmw.com

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

电气特性Electrical Specifications:

参数 Parameter	Symbo	Min	Typ	Max	Min	Typ	Max	单位Units
频率范围Frequency range	BW	0.5-0.7			0.7-6			GHz
增益 Gain	GP	53	56		53	53		dB
增益平坦度 Gain flatness	ΔGL		±1	±2		±4	±5	dB
饱和输出功率 Output Psat	Psat	44	46		50	50.5		dBm
杂散 Spurious	Spur			-60			-60	dBc
谐波 Harmonics	HAM			-10			-10	dBc
输入驻波 Input VSWR	VSWRin		1.5	2.0		1.5	2.0	:1
直流电压 DC Voltage	V	26	28	30	26	28	30	V
直流电流 DC Supply Current	Iac	24						A
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	
尺寸 Size	480*256*173	mm
重量 Weight	-	Kg

绝对最大值Absolute Maximum Ratings:

参数Parameter	指标 Value
输入功率 RF Input Power	3 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

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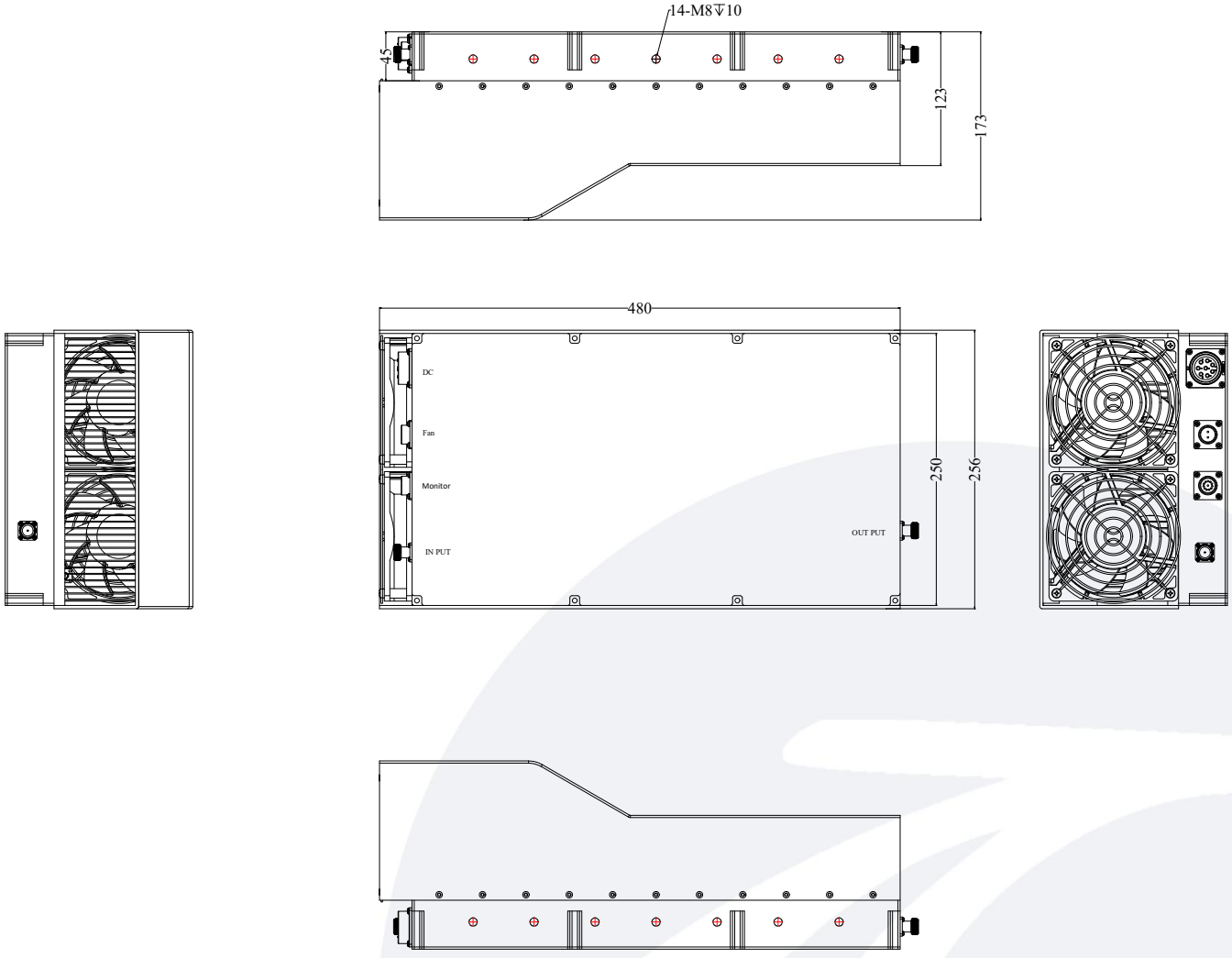
外形尺寸Outline Drawing:

Unit: mm



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温度环境Environmental Conditions:

参数Parameter	Min	Typ	Max	单位Units
操作温度 Operating Temperature	-40		+50	℃
存储温度 Non-operating Temperature	-55		+125	℃
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 Part Number	描述 Description	版本号 Revision
TLPA0.5G6G-53-50-WATERPROOF	Power amplifier 0.5-6GHz,Gain:53dB,Psat:50dBm, +28V DC,With Heatsink	Rev.1.0

DC加电接口 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

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风扇接口Fan Connector:

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

监控界面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