

Model: TLPA0.5G6G-50-50-WATERPROOF
Power Amplifier
0.5-6GHz, Gain: 50dB, Psat: 50dBm
Feature:

- Wide Band: 500MHz-6GHz
- Gain: 50dB Min
- Psat Output Power: 50dBm Min
- Good Power and Gain Flatness.
- 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 Sympo	Min	Typ	Max	单位 Units
频率范围 Frequency range	BW	0.5-6			GHz
工作模式 Operating Mode	OPM	CW/PULSE compatible			
功率增益 Power Gain	GP	50			dB
增益平坦度 Gain flatness	Δ GL		± 3.5		dB
饱和输出功率 Output Psat	Psat	50			dBm
杂散 Spurious@Pout=50dBm	Spur			-60	dBc
二次谐波 2nd Harmonics@Pout=50dBm	HAM		-10		dBc
输入驻波 Input VSWR	VSWRin			2.0	:1
直流电压 DC Voltage	V		36		V
功耗 Power Consumption	Pdiss			800	W
防护等级 Ingress Protection Grade	IPG	IP-65			
阻抗 Impedance	I/O-IMP	50			Ohms

机械特性 Mechanical Specifications:

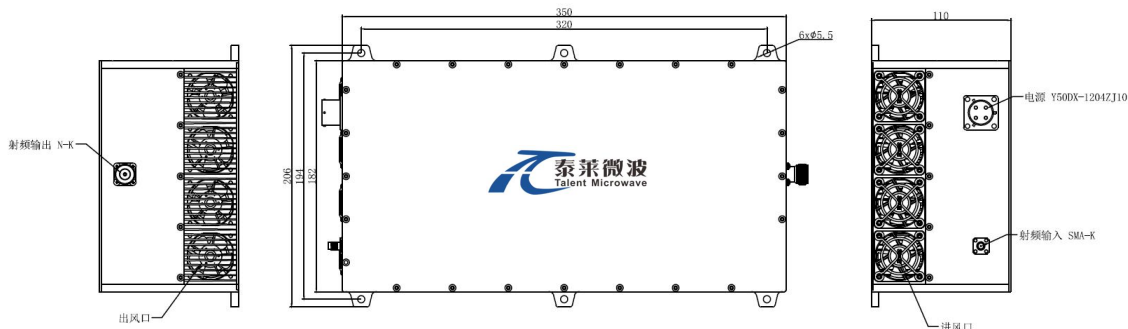
参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	SMA Female/N Female	
尺寸 Size	3350*206*110	mm
重量 Weight	≤ 7.5	Kg

绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
输入功率 RF Input Power	10 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形尺寸 Outline Drawing:

Unit: mm


DC加电接口 DC Interface Connector(Y50DX-1204ZJ10):

Pin #	Description	Specification
1	VCC	+36 V DC
2	VCC	+36 V DC
3	GND	Ground
4	GND	Ground

温度环境 Environmental Conditions:

参数Parameter	Min	Typ	Max	单位Units
操作温度 Operating Temperature*	-20		+50	°C
存储温度 Non-operating Temperature*	-30		+60	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	10000			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			

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

订货信息 Ordering Information:

标准型号 Part Number	描述 Description	版本号 Revision
TLPA0.5G6G-50-50-WATERPROOF	Power amplifier 0.5-6GHz, Gain:50dB, Psat:50dBm, +36V DC, With Heatsink	Rev.1.0