泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
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Power Amplifier

10.7-12.7GHz/53dB Gain/53dBm Psat

Model: TLPA10.7G12.7G-53-53

TLPA10.7G12.7G-53-53 is a power amplifier with a minimum power gain of 53 dB and a minimum Psat of 53 dBm across the frequency range of 10.7 to 12.7 GHz. The DC power requirement for the amplifier is +220 V AC/1600 W. The input port configuration offers coax adapter structure with N female and output port configuration offers WR75.

Features:

- Frequency range: 10.7-12.7GHz
- Gain: 53dB Min
- Output Power Psat: 53dBm Min
- Protection:Over TEM,over current,over voltage, over VSWR protection
- 50 Ohm Matched Input / Output

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency range		10.7-12.7		GHz
功率增益 Power Gain	53			dB
饱和输出功率 Output Psat	53			dBm
增益平坦度 Gain flatness		±3		dB
杂散 Spurious@Pout=53dBm			-50	dBc
谐波抑制 Harmonic@Pout=53dBm			-15	dBc
输入驻波 Input VSWR			2	:1
交流电压 AC Voltage		220		V AC
功耗 Power Consumption			1600	W
阻抗 Impedance		50		Ohms

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机械特性 Mechanical Specifications:

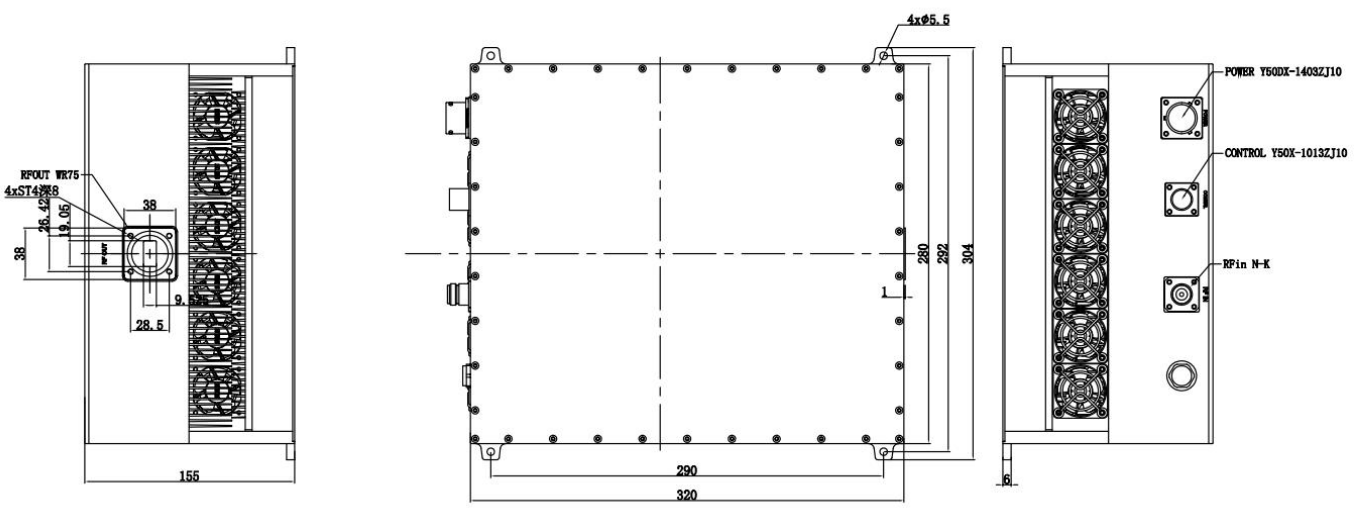
参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	N Female/WR75	
供电接口 DC Supply Connector	Y50DX-1403	
控制接口 Control Connector	Y50X-1013	RS422
尺寸 Size	320*304*155	mm
重量 Weight	≤20	Kg

绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
输入功率 RF Input Power	+5 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形图 Outline Drawing:

Unit:mm



***Heat Sink Required During Operation

OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

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主要功能 Key Features:

参数 Parameter	特点 Advantages
控制功能 Control functions	1, Power setting on/off 2,RF setting on/off 3,ALC automatic level control
监测功能 Monitoring functions	1, TEM 2, Operating voltage 3, Operating current 4, Output/reflected power 5, Fault informations
内置保护功能 Protection functions	1,Over TEM 2,Over voltage 3,Over current 4,Over VSWR: the safe level of3:1
监控和控制 Remote control	RS422
冷却系统 Cooling system	Built in Cooling system,forced air cooling

温度环境 Environmental Conditions:

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature*	-20		+50	℃
存储温度 Non-operating Temperature*	-30		+60	℃
相对湿度 Relative humidity		95		%
海拔 Altitude	10,000			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 Base Number	描述 Description	版本号 Revision
TLPA10.7G12.7G-53-53	Power amplifier 10.7-12.7GHz, Gain:53dB,Psat:53dBm,220V AC	Rev.1.1