

Power Amplifier

WR-15/50-75GHz/35dB Gain/35dBm Psat**Model: TMPA-050075-3535-15**

TMPA-050075-3535-15 is a power amplifier with a minimum small signal gain of 35 dB and a minimum Psat of 35 dBm across the frequency range of 50 to 75 GHz. The DC power requirement for the amplifier is +18VDC/5 A. The input and output port configuration offers an inline structure with WR-15 waveguides and UG-385/U-M antiracking flanges.

Features:

- Frequency: 50-75GHz
- Gain: 35dB Min
- Output Power Psat: 35dBm Min
- Good Power and Gain Flatness

Applications:

- Passive Imaging
- Communication Systems
- Radar Systems

电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency range	50-75			GHz
小信号增益 Small Signal Gain	35			dB
饱和输出功率 Output Psat	35			dBm
杂散 Spurious@Pout=35dBm			-50	dBc
直流电压 DC Voltage		18		V DC
直流电流 DC Supply Current		5		A

机械特性 Mechanical Specifications:

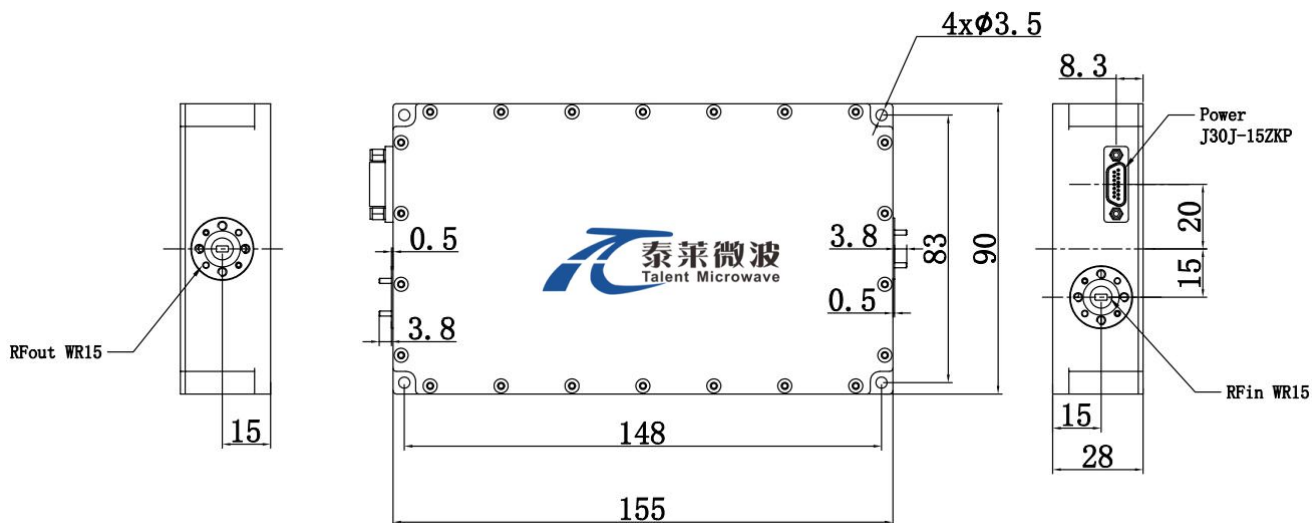
参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	WR-15/UG-385/U	
直流供电接口 DC Supply Connector	J30J-9ZKP	Pin1~5:+18V Pin6~9:GND
尺寸 Size	155*90*28	mm
重量 Weight	≤300	g

绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	TBD
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



ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

温度环境 Environmental Conditions:

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-40		+60	°C
存储温度 Non-operating Temperature	-50		+70	°C
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			

订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 Revision
TPMA-050075-3535-15	Power Amplifier, 50-75 GHz, Gain:35dB Min, Psat:35 dBm Min, +18V DC,WR-15,Without Heatsink	Rev.1.1
TPMA-050075-3535-15-HS	Power Amplifier, 50-75 GHz, Gain:35dB Min, Psat:35 dBm Min, +18V DC,WR-15,With Heatsink	Rev.1.1