

Power Amplifier

WR-3.4/210-230GHz/11dB Gain/17dBm Psat**Model: TMPA-210230-1117-03**

TMPA-210230-1117-03 is a power amplifier with a typical small signal gain of 11 dB and a nominal Psat of 17 dBm across the frequency range of 210 to 230 GHz. The DC power requirement for the amplifier is +15 VDC/340 mA. The input and output port configuration offers an inline structure with WR-3.4 waveguides and UG-387/U-M antcocking flanges.

Features:

- Frequency range: 210-230GHz
- Gain: 11dB Typ
- Output Power Psat: 17dBm Typ
- 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	210		230	GHz
小信号增益 Small Signal Gain		11		dB
饱和输出功率 Output Psat		17		dBm
输入驻波 Input VSWR		3		:1
输出驻波 Output VSWR		3		:1
直流电压 DC Voltage		15		V DC
直流电流 DC Supply Current		340		mA

机械特性 Mechanical Specifications:

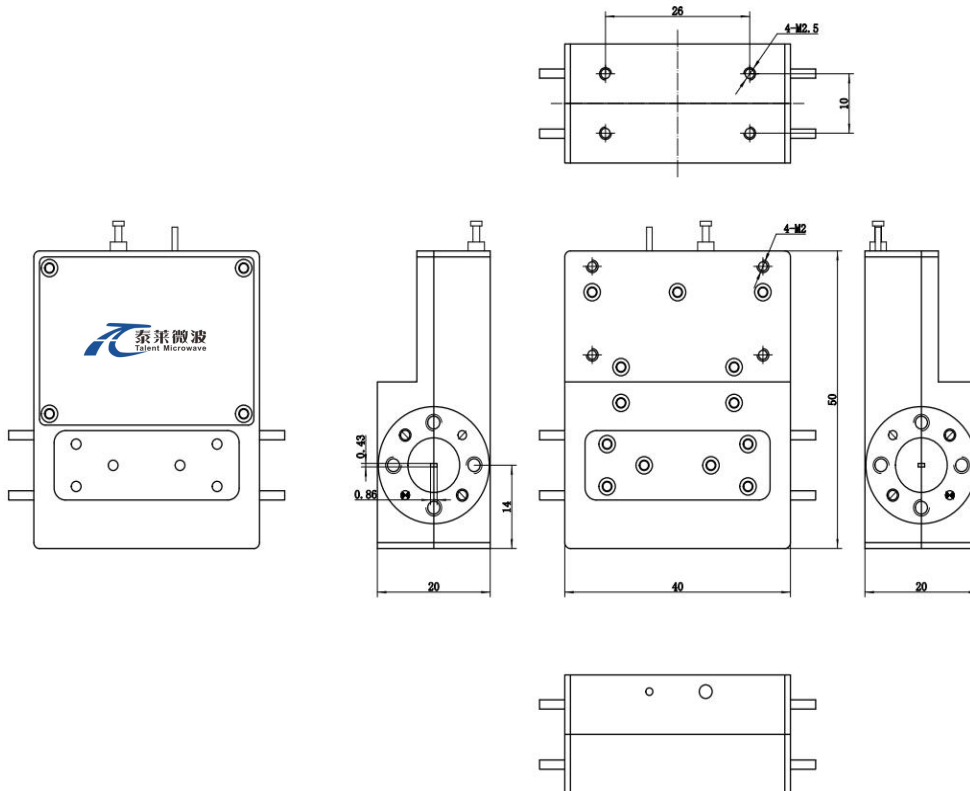
参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	WR-3.4/UG-387/U	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	40*50*20	mm

绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+16 V
输入功率 RF Input Power	+15 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形图 Outline Drawing:

Unit:mm; Tolerance:±0.1mm



*****Heat Sink Required During Operation**



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	-10		+65	°C
存储温度 Non-operating Temperature	-45		+85	°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
TMPA-210230-1117-03	Power Amplifier, 210-230GHz, Gain: 11dB Type, Psat: 17dBm Type, +15V DC,WR-3.4, Without heasink	Rev.1.1
TMPA-210230-1117-03-HS	Power Amplifier, 210-230GHz, Gain: 11dB Type, Psat: 17dBm Type, +15V DC,WR-3.4, With heatsink	Rev.1.1