

W-Band Power Amplifier

WR-10/75-110GHz /32dB Gain/26 dBm Psat**Model: TMPA-075110-3226-10**

TMPA-075110-3226-10 is a W-Band power amplifier with a typical small signal gain of 32 dB and a nominal Psat of 26 dBm across the frequency range of 75 to 110 GHz. The DC power requirement for the amplifier is +20 VDC/1600 mA. The input and output port configuration offers an inline structure with WR-10 waveguides and UG-387/U-M antickocking flanges.

Features:

- Ultra Wide Band: 75-110GHz
- Gain: 32dB Typ
- Output Power Psat: 26dBm 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	75-110			GHz
小信号增益 Small Signal Gain		32		dB
功率增益 Power Gain		25		dB
饱和输出功率 Output Psat	25	26		dBm
输出功率1dB压缩点 Output P1dB	18			dBm
输入驻波 Input VSWR		2.2		:1
输出驻波 Output VSWR		2.2		:1
直流电压 DC Voltage		+20		V DC
直流电流 DC Supply Current		1600		mA

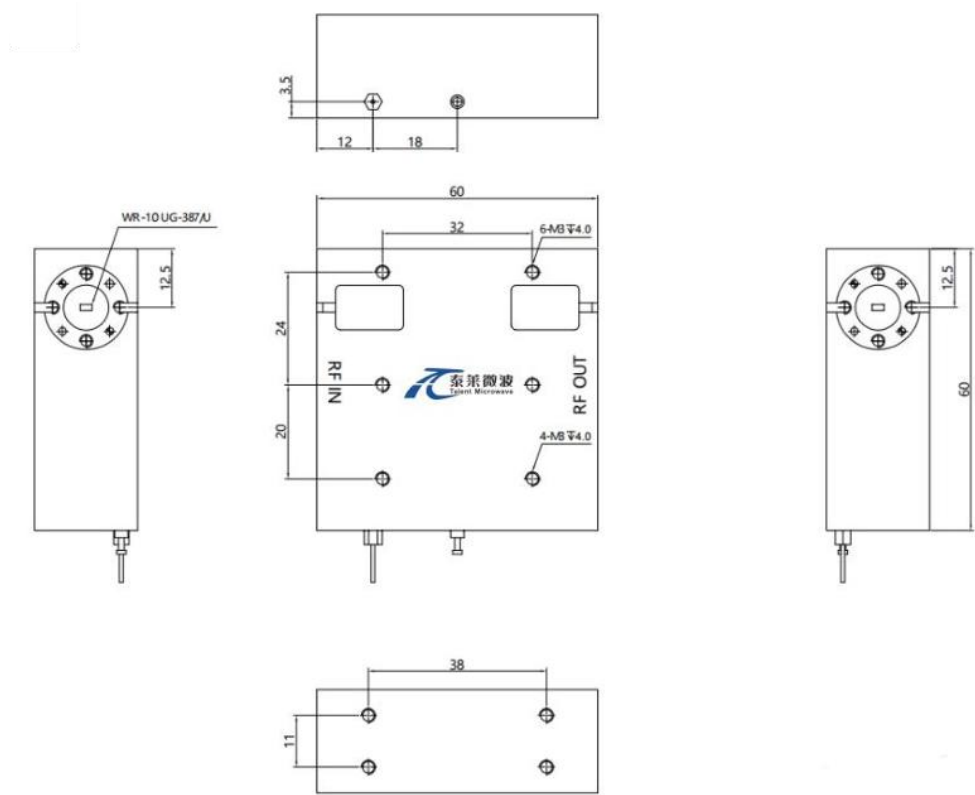
机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	WR-10/UG-387/U	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	60*60*22	mm

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



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-075110-3226-10	Power Amplifier, 75-110 GHz, Gain:32 dB Type, Psat:26 dBm Type, +20V DC,WR-10	Rev.1.1