泰莱微波
Talent Microwave

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Active Frequency Multiplier

WR-12/X6/80-86GHz/27dBm Output Power Model: TMAM-080086-0627-12

TMAM-080086-0627-12 is an active X6 frequency multiplier. The multiplier has an input frequency of 13.3 to 14.33 GHz with a typical input power of +4 dBm and an output frequency of 80 to 86 GHz with a typical output power of +27 dBm. The DC power requirement for the multiplier is +18 V DC/680 mA. The input port configuration is a female SMA connector and the output is a WR-12 waveguide with a UG-387/U-M anti-cocking flange.

Features:

- Output Frequency: 80-86GHz
- Output Power: 27dBm Typ
- Low power consumption

Applications:

- Frequency Extenders
- THz Systems

电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
输出频率 Output Frequency	80		86	GHz
输出功率 Output Power	26	27		dBm
输入频率 Input Frequency	13.3		13.33	GHz
输入功率 Input Power	2	4	8	dBm
倍频次数 Multiply Factor		6		
输入回波损耗 Input Return Loss		10		dB
输出回波损耗 Output Return Loss		8		dB
供电电压 DC Voltage		18		V
静态电流 Static Current		330		mA
饱和电流 Saturation Current		680		mA

机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
输出接口 Output Connector	WR-12/UG-387/U	
输入接口 Input Connector	SMA Female	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	56*83.6*68(Without Heatsink) 56*95.6*68(With Heatsink)	mm

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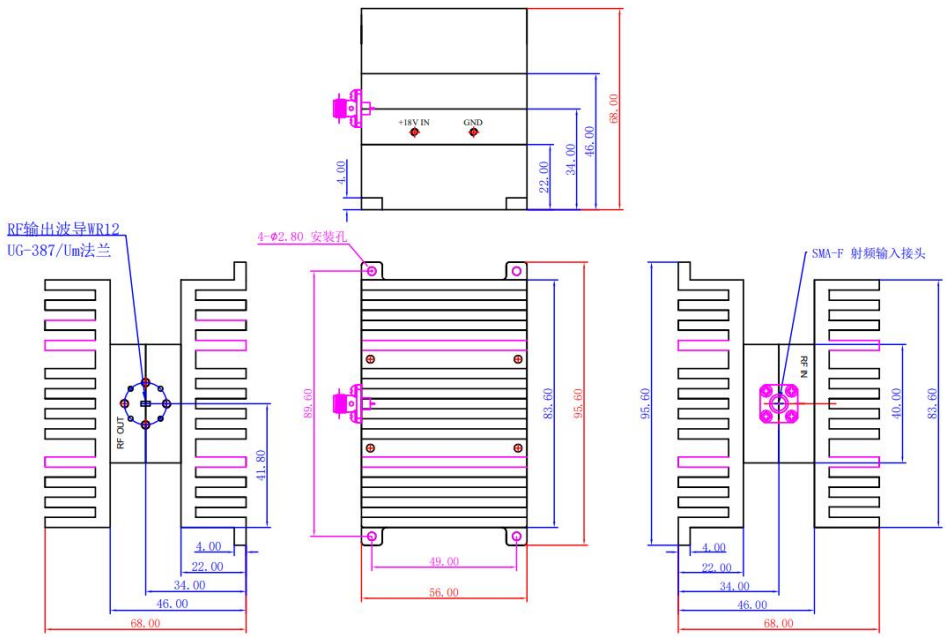
绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	TBD
输入功率 RF Input Power	8 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形图 Outline Drawing:

Unit:mm; Tolerance:±0.1mm



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

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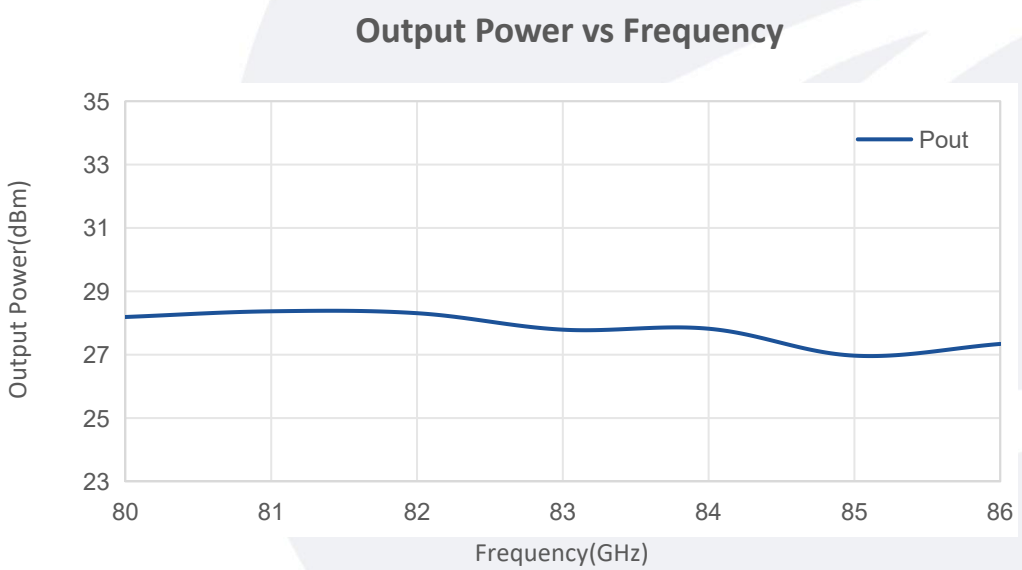
温度环境 Environmental Conditions:

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-10		+65	℃
存储温度 Non-operating Temperature	-45		+85	℃
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			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
TMAM-080086-0627-12	Active Multiplier, X6, 80-86GHz, Output Power:27dBm,WR-12/UG-387/U,SMA Female	Rev.1.1

典型曲线 Typical Performance Data:



Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

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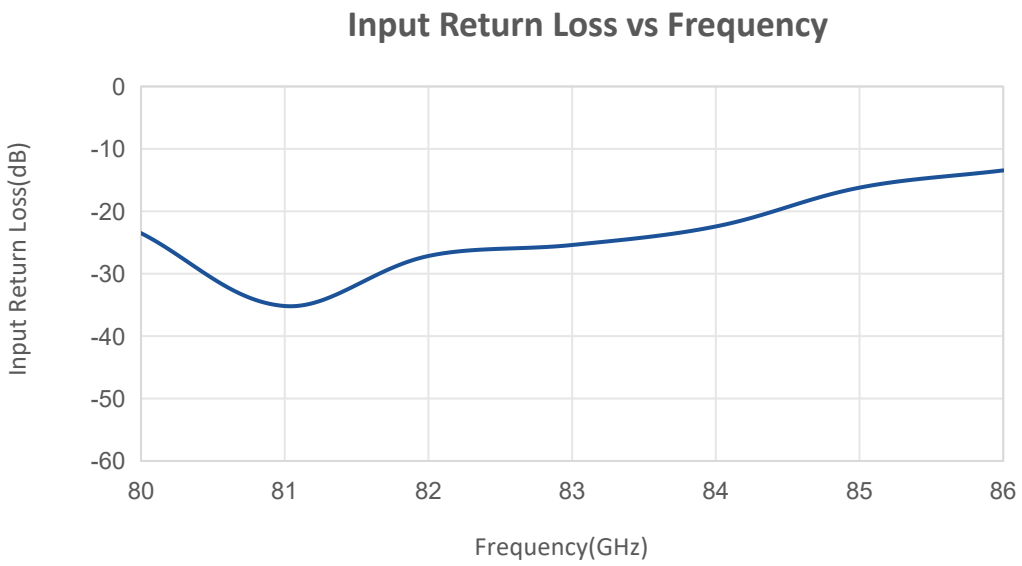

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