泰莱微波 Talent Microwave

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Active Frequency Multiplier

WR-10/X8/70-115GHz/14dBm Output Power Model: TMAM-070115-0814-10

TMAM-070115-0814-10 is an active X8 frequency multiplier. The multiplier has an input frequency of 8.75 to 14.375 GHz with a typical input power of +5 dBm and an output frequency of 70 to 115 GHz with a typical output power of +14 dBm. The DC power requirement for the multiplier is +12 V DC. The input port configuration is a female SMA connector and the output is a WR-10 waveguide with a UG-387/U-M anti-cocking flange.

Features:

- Output Frequency: 70-115GHz
- Output Power: 14dBm 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	70		115	GHz
输出功率 Output Power		14		dBm
输入频率 Input Frequency	8.75		14.375	GHz
输入功率 Input Power	3	5	7	dBm
倍频次数 Multiply Factor		8		
谐波抑制 Harmonic Suppression		12		dBc
供电电压 DC Voltage		12		V

机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
输出接口 Output Connector	WR-10/UG-387/U	
输入接口 Input Connector	SMA Female	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	50*30*23	mm

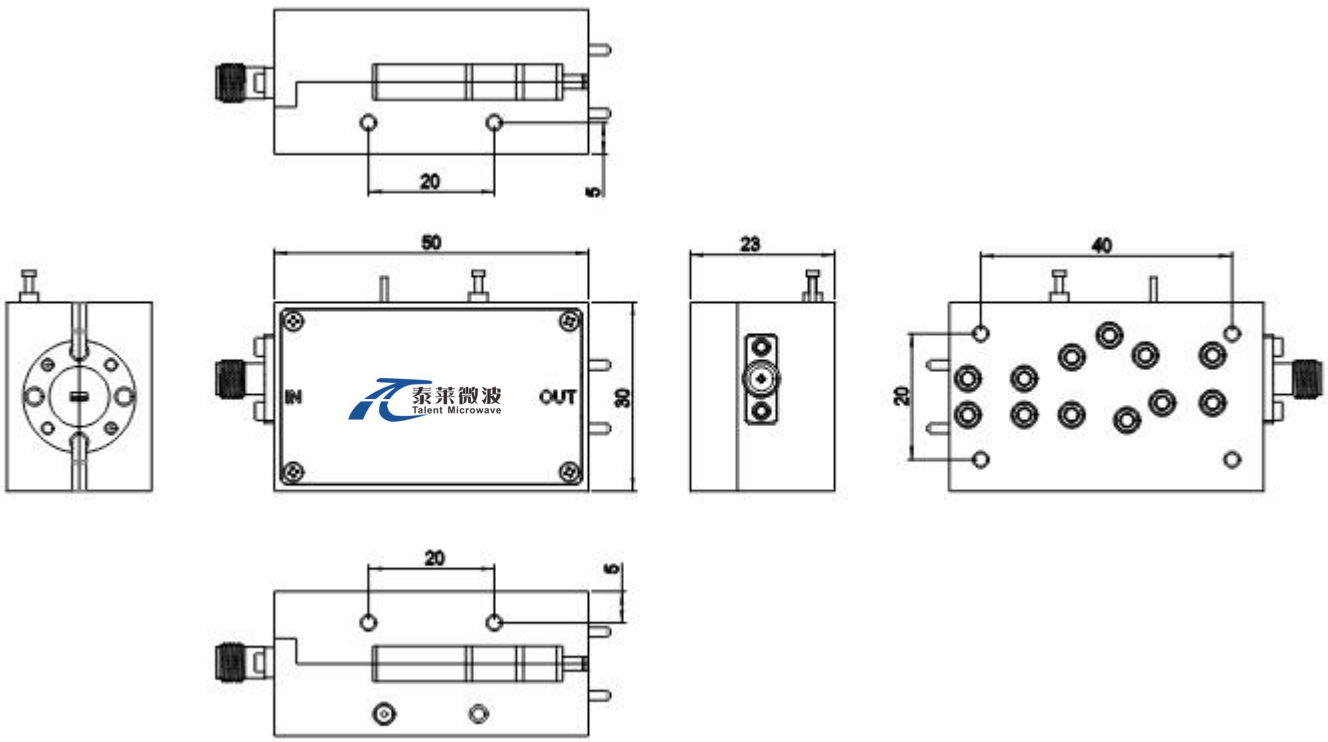
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绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+15 V
输入功率 RF Input Power	+10 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-070115-0814-10	Active Multiplier, X8, 70-115GHz, Output Power:14dBm,WR-10/UG-387/U,SMA Female	Rev.1.0