泰莱微波 Talent Microwave

Suzhou Talent Microwave,Inc
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Active Frequency Multiplier

WR-12/X4/55-85GHz/18dBm Output Power Model: TMAM-055085-0418-12

TMAM-055085-0418-12 is an active X4 frequency multiplier. The multiplier has an input frequency of 13.75 to 21.25 GHz with a typical input power of +5 dBm and an output frequency of 55 to 85 GHz with a typical output power of +18 dBm. The DC power requirement for the multiplier is +5.5 V DC/630 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: 55-85GHz
- Output Power: 18dBm 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	55		85	GHz
输出功率 Output Power		18		dBm
输入频率 Input Frequency	13.75		21.25	GHz
输入功率 Input Power	4	5	8	dBm
倍频次数 Multiply Factor		4		
谐波 Harmonics		-20		dBc
供电电压 DC Voltage		5.5		V
供电电流 DC Supply Current		630		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	58*35*24	mm

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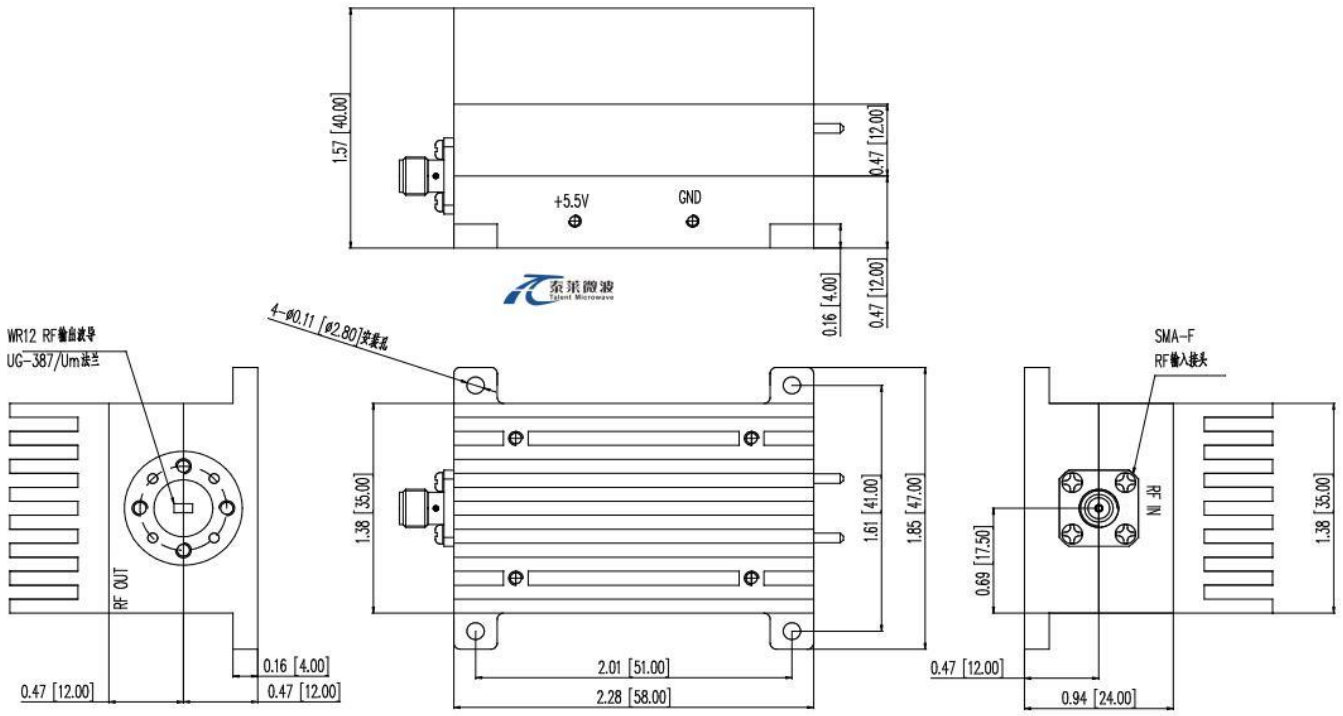
绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+8 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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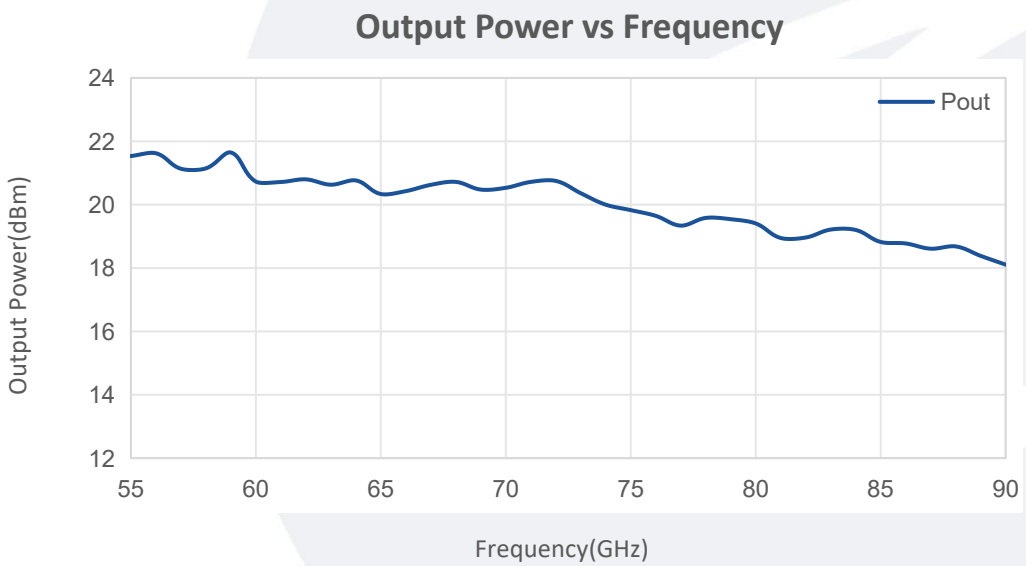
温度环境 Environmental Conditions:

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-055085-0418-12	Active Multiplier, X4, 55-85GHz, Output Power:18dBm,WR-12/UG-387/U,SMA Female	Rev.1.0

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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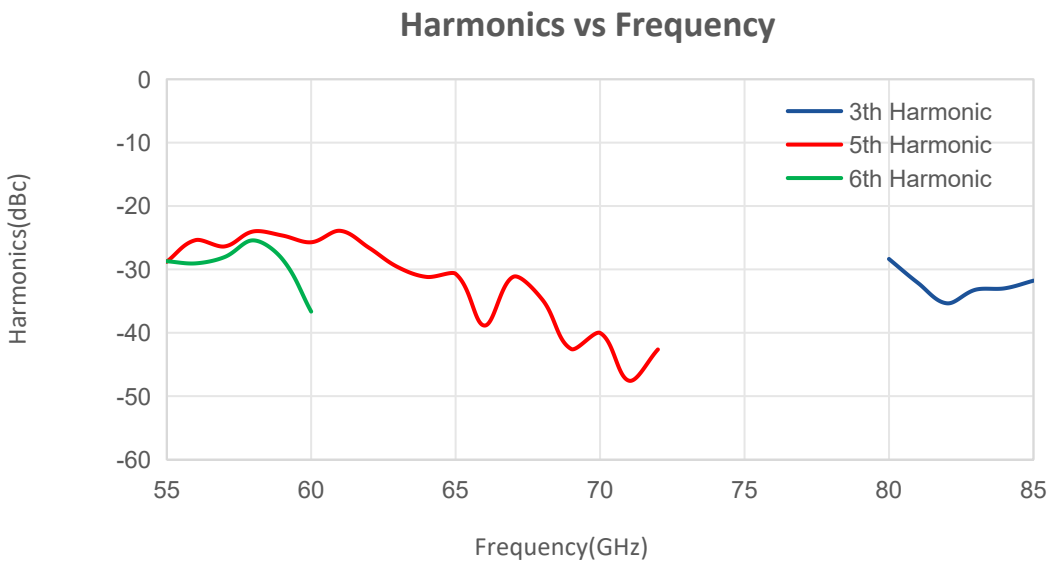

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