Passive Frequency Multiplier
WR-4.3/X3/170-260GHz/9.5dBm Output Power   Model: TMPM-170260-0310-4.3

TMPM-170260-0310-4.3 is a WR-4.3 X3 passive multiplier that generates second order harmonics with good harmonic and fundamental suppression. This multiplier requires an input frequency range of 170 to 260 GHz at +21 dBm RF power to yield typical +9.5 dBm output power at 170 to 260 GHz. The multiplier is equipped with a WR-12 waveguide and UG-387/U-M flange as its input port and a WR-4.3 waveguide and UG-387/U-M flange as its output port.

Features:
- Output Frequency: 170-260GHz
- Output Power : 9.5dBm Min
- Compactness,High Power&Efficiency

Applications:
- Frequency Extenders
- THz Systems
- Source Modules

电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
输出频率 Output Frequency	170		260	GHz
输入频率 Input Frequency	56		87	GHz
输出功率 Output Power	9.5			dBm
输入功率 Input Power	10	21	25	dBm
倍频次数 Multiply Factor		3		

机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
输出接口 Output Connector	WR-4.3/UG-387/U	
输入接口 Input Connector	WR-12/UG-387/U	

绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
输入功率 RF Input Power	+25 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形图 Outline Drawing:

Unit:mm

WR4.3

WR12.2
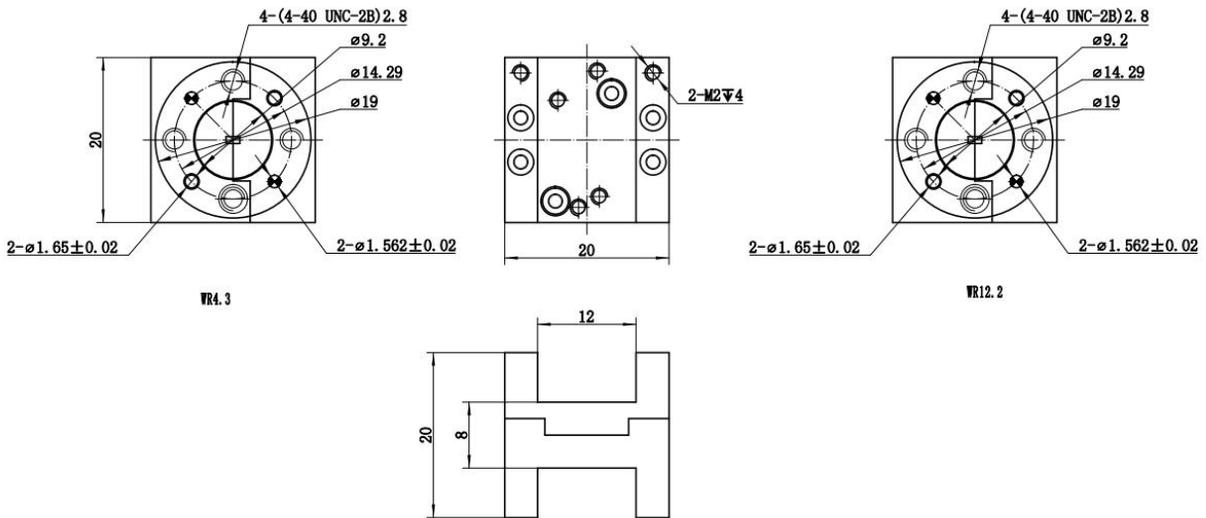
ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic

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	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 Desciption	版本号 Revision
TMPM-170260-0310-4.3	Passive Frequency Tripler X3,170-260GHz, 9.5dBm Output Power,WR-4.3	Rev.1.1

典型曲线 Typical Performance Data:

Output Power vs Frequency
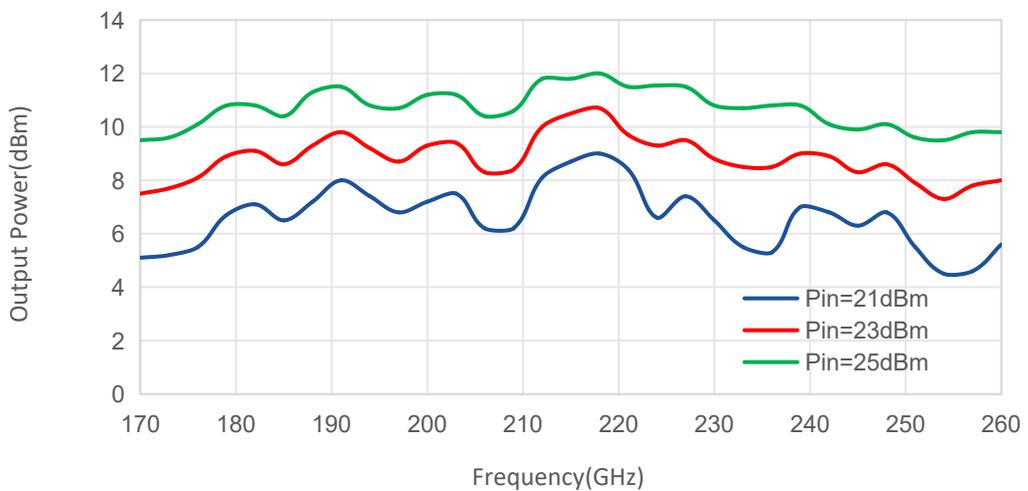
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment