

## Passive Frequency Multiplier

WR-06/X2/142-156GHz /18dBm Output Power

Model: TMPM-142156-0218-06

TMPM-142156-0218-06 is a WR-06 X2 passive multiplier that generates second order harmonics with good harmonic and fundamental suppression. This multiplier requires an input frequency range of 71 to 78 GHz at +27 dBm RF power to yield typical +18 dBm output power at 142 to 156 GHz. The multiplier is equipped with a WR-12 waveguide and UG-387/U-M flange as its input port and a WR-06 waveguide and UG-387/U-M flange as its output port.

### Features:

- Output Frequency:142-156 GHz
- Output Power : 18 dBm Typ
- 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	142		156	GHz
输入频率 Input Frequency	71		78	GHz
输出功率 Output Power		18		dBm
输入功率 Input Power			26	dBm
倍频次数 Multiply Factor		2		

### 机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
输出接口 Output Connector	WR-06/UG-387/U	
输入接口 Input Connector	WR-12/UG-387/U	
尺寸 Size	17.5*19*19	mm

## 绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
输入功率 RF Input Power	+26 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
TMPM-142156-0218-06	Passive Frequency Tripler X2,142-156 GHz, 18dBm Output Power,WR-06	Rev.1.1