

## E-Band, Active Frequency Multiplier

WR-12/X2/71-86GHz /13dBm Output Power

Model: TMAM-071086-0213-12

TMAM-071086-0213-12 is an active X2 frequency multiplier. The multiplier has an input frequency of 30.5 to 43 GHz with a typical input power of +0 dBm and an output frequency of 71 to 86 GHz with a typical output power of +13 dBm. The DC power requirement for the multiplier is +5.5 V DC/460 mA. The input port configuration is a female 2.4mm connector and the output is a WR-12 waveguide with a UG-387/U-M anti-cocking flange.

### Features:

- Output Frequency:71-86GHz
- Output Power :13dBm 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	71		86	GHz
输出功率 Output Power		13		dBm
输入频率 Input Frequency	30.5		43	GHz
输入功率 Input Power	-2	0	2	dBm
倍频次数 Multiply Factor		2		
供电电压 DC Voltage		5.5		V
供电电流 DC Supply Current		460		mA

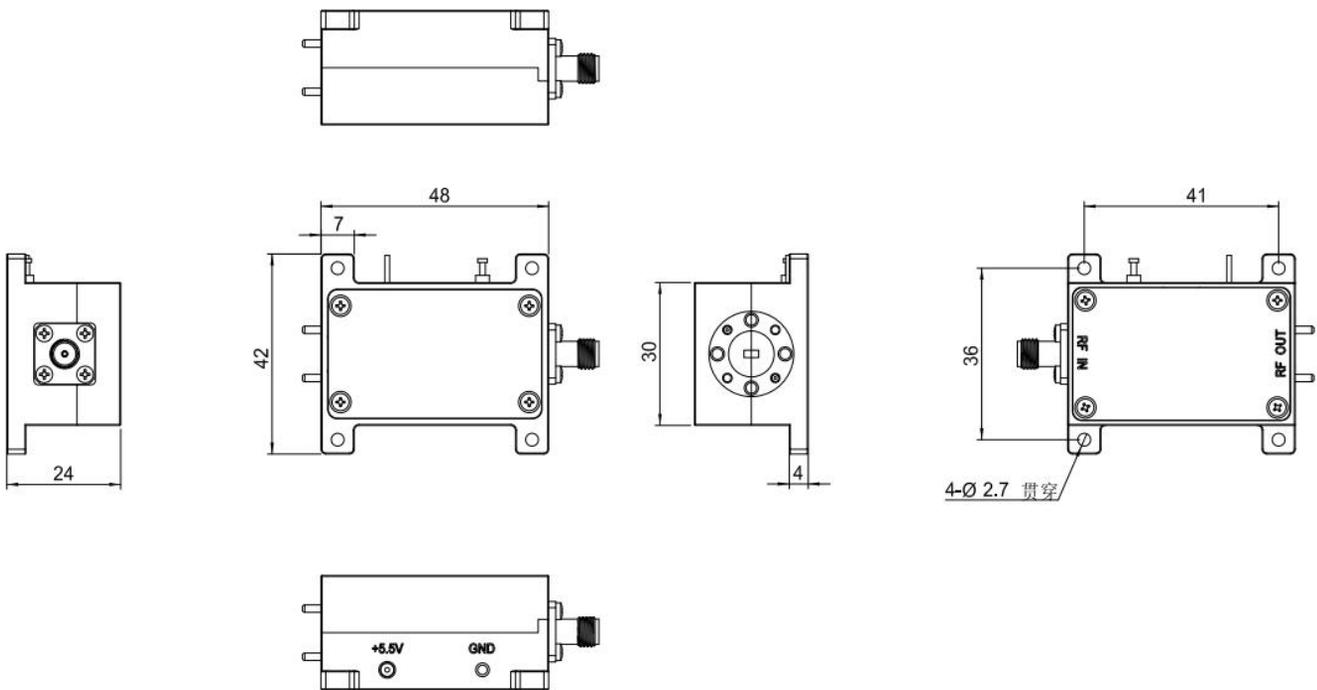
### 机械特性 Mechanical Specifications:

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	2.4mm Female	
直流偏置 DC Bias	Solder Pin	

## 绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+10 V
输入功率 RF Input Power	+5 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	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-071086-0213-12	Active Multiplier,X2,71-86GHz, Output Power:13dBm,WR-12/UG-387/U,2.4mm Female	Rev.1.1

### 典型曲线 Typical Performance Data:

