

E-band,Active Frequency Multiplier

WR-12/X6/ 71-86GHz /13dBm Output Power

Model: TMAM-071086-0613-12

TMAM-071086-0613-12 is an active X6 frequency multiplier. The multiplier has an input frequency of 11.83 to 14.33 GHz with a typical input power of +5 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 V DC. 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: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	10	13		dBm
输入频率 Input Frequency	11.83		14.33	GHz
输入功率 Input Power	3	5	7	dBm
倍频次数 Multiply Factor		6		
供电电压 DC Voltage		5		V
直流电流 DC Supply Current		100		mA

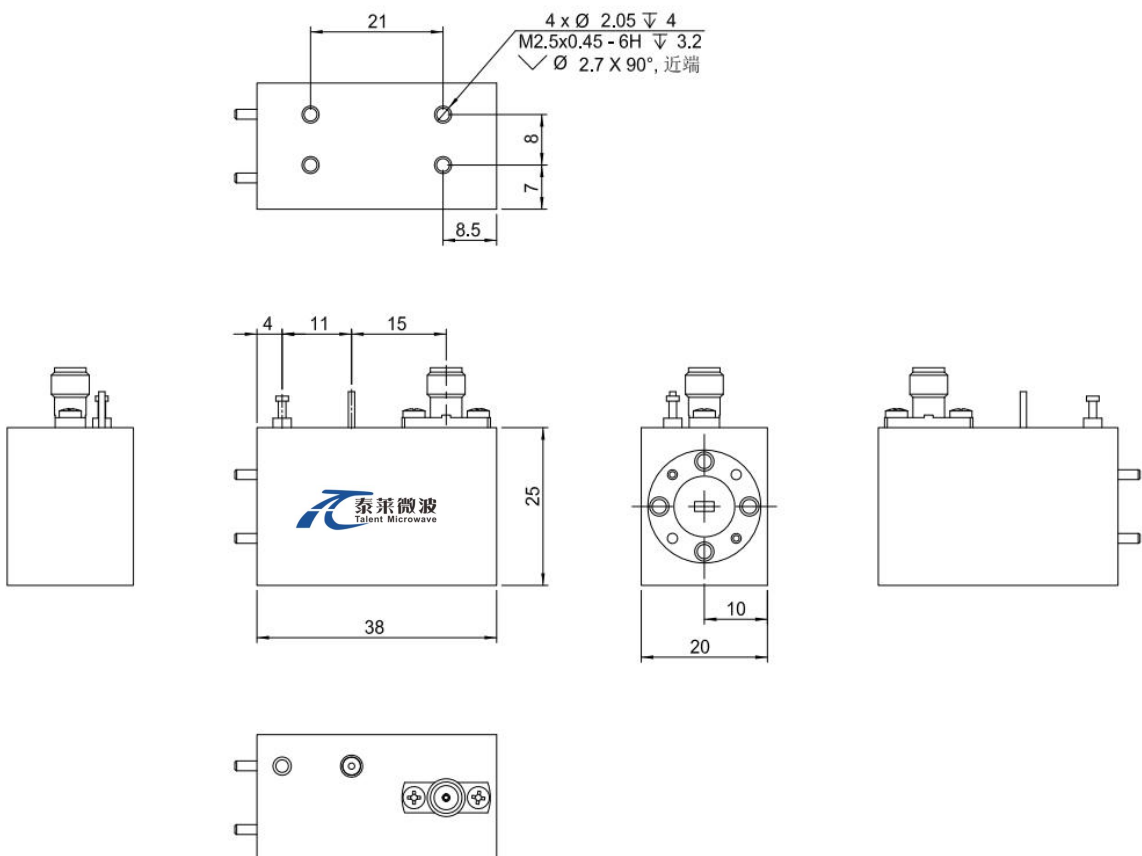
机械特性 Mechanical Specifications:

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	38*20*25	mm

绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	TBD
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



温度环境 Environmental Conditions:

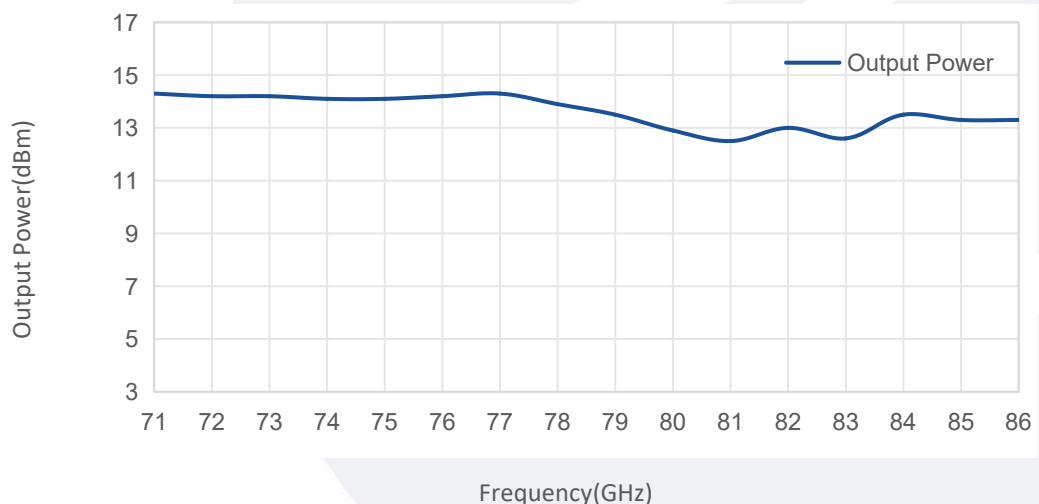
参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-10		+65	°C
存储温度 Non-operating Temperature	-45		+85	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half 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-071086-0613-12	Active Multiplier,X6,71-86GHz, Output Power:13dBm,WR-12/UG-387/U,SMA Female	Rev.1.1

典型曲线 Typical Performance Data:

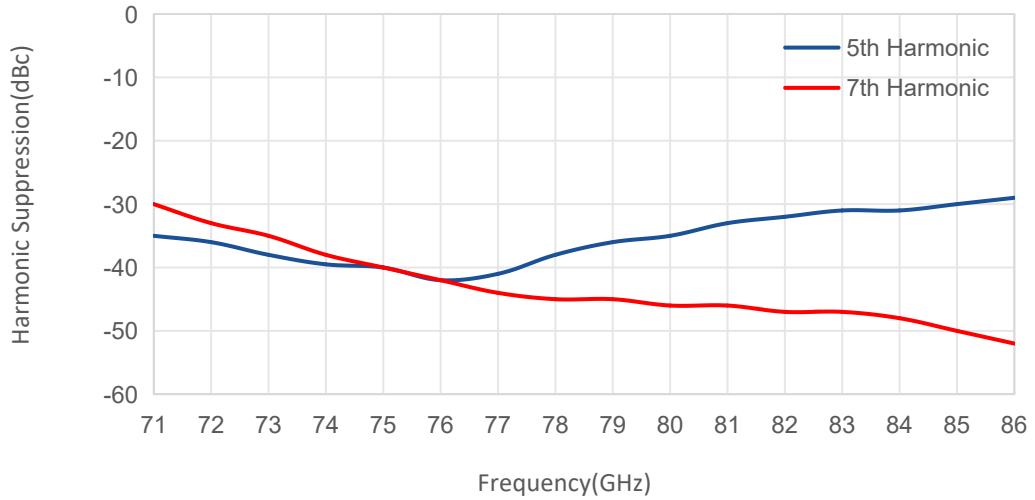
Output Power vs Frequency



Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

典型曲线 Typical Performance Data:

Harmonic Suppression vs Frequency



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