泰莱微波 Talent Microwave

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D-Band, Active Frequency Multiplier

WR-6.5/X12/110-170GHz/16dBm Output Power Model: TMAM-110170-1216-06-TTL-UCA

TMAM-110170-1216-06-TTL-UCA is a D-Band active X12 frequency multiplier. The multiplier has an input frequency of 9.16 to 14.17 GHz with a typical input power of +5 dBm and an output frequency of 110 to 170 GHz with a typical output power of +16 dBm. The DC power requirement for the multiplier is +12 V DC/480 mA. The input port configuration is a female SMA connector and the output is a WR-6.5 waveguide with a UG-387/U-M anti-cocking flange.

Features:

- Output Frequency: 110-170GHz
- Output Power: 16dBm 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	110		170	GHz
输出功率 Output Power		16		dBm
输入频率 Input Frequency	9.16		14.17	GHz
输入功率 Input Power	3	5	7	dBm
倍频次数 Multiply Factor		12		
谐波 Harmonics		-20		dBc
供电电压 DC Voltage		12		V
控制电压 Control Voltage	0V: Off to +5V: Full power output			V
TTL电压 TTL Voltage	On: +5V; Off: 0V			V
供电电流 DC Supply Current		480		mA

机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
输出接口 Output Connector	WR-6.5/UG-387/U	
输入接口 Input Connector	SMA Female	
直流偏置 DC Bias	Solder Pin	
尺寸 Size	57.5*28*23(Without heatsink) 57.5*40*50.5(With heatsink)	mm

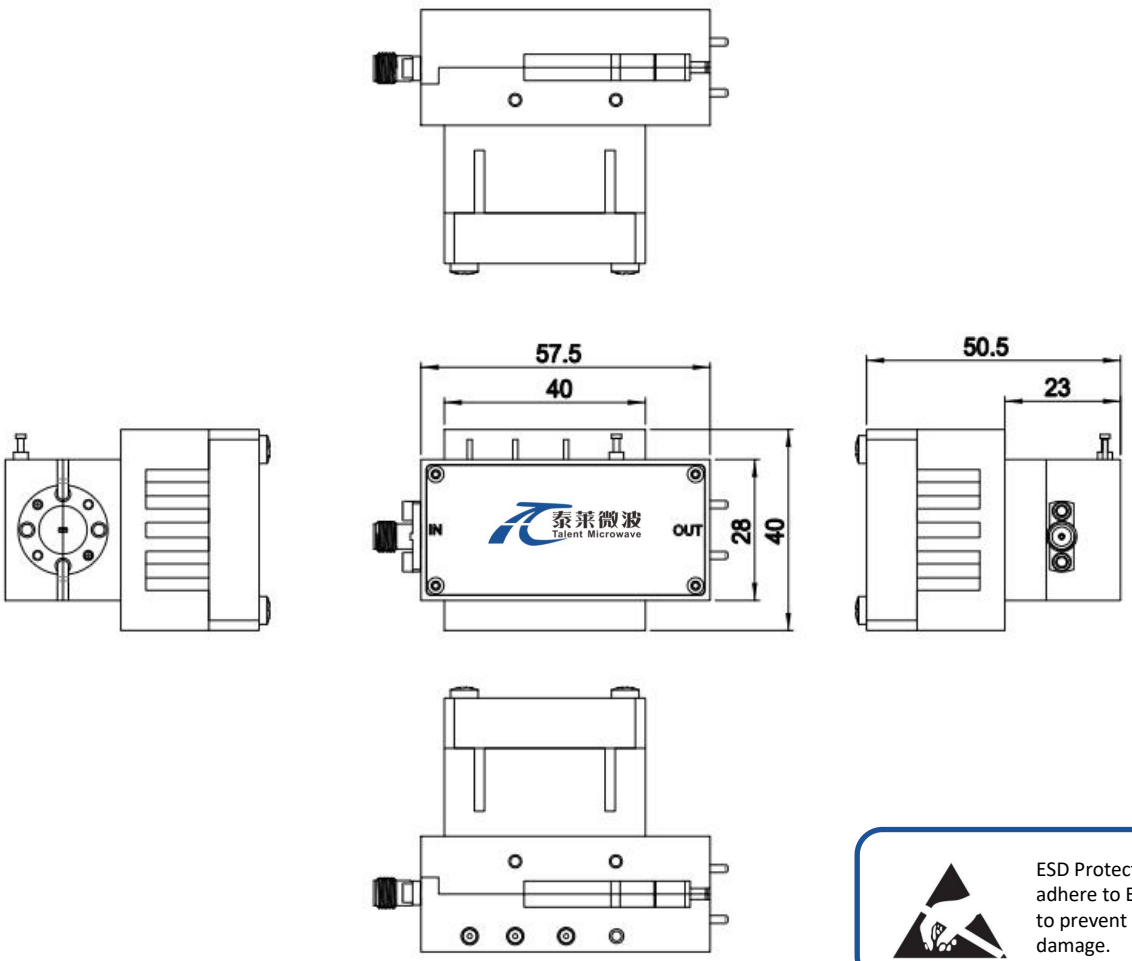
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绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+15 VDC
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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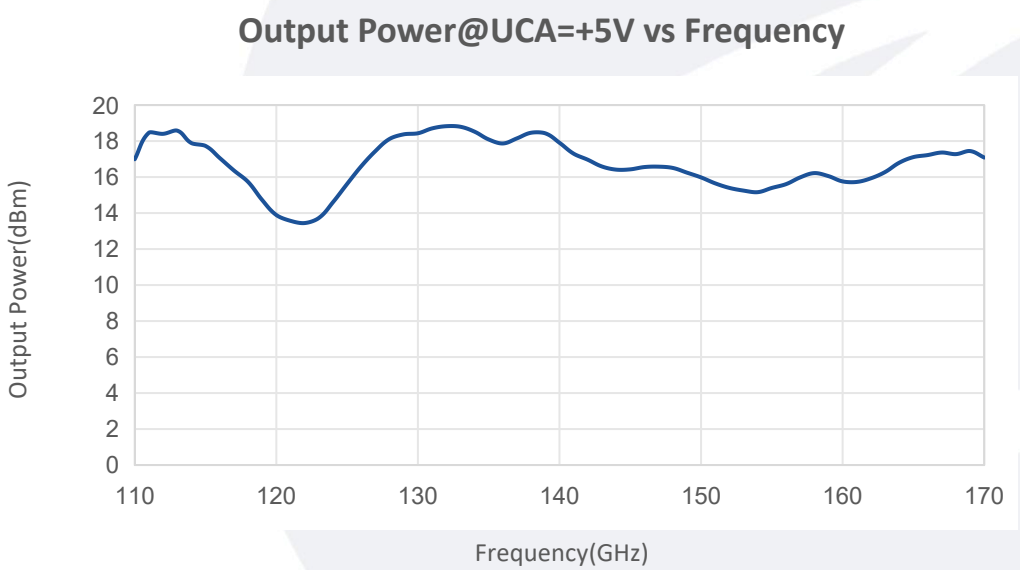
温度环境 Environmental Conditions:

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-110170-1216-06-TTL-UCA	D-Band Active Multiplier, X12, 110-170GHz, Output Power:16dBm,WR-6.5/UG-387/U,SMA Female	Rev.1.0

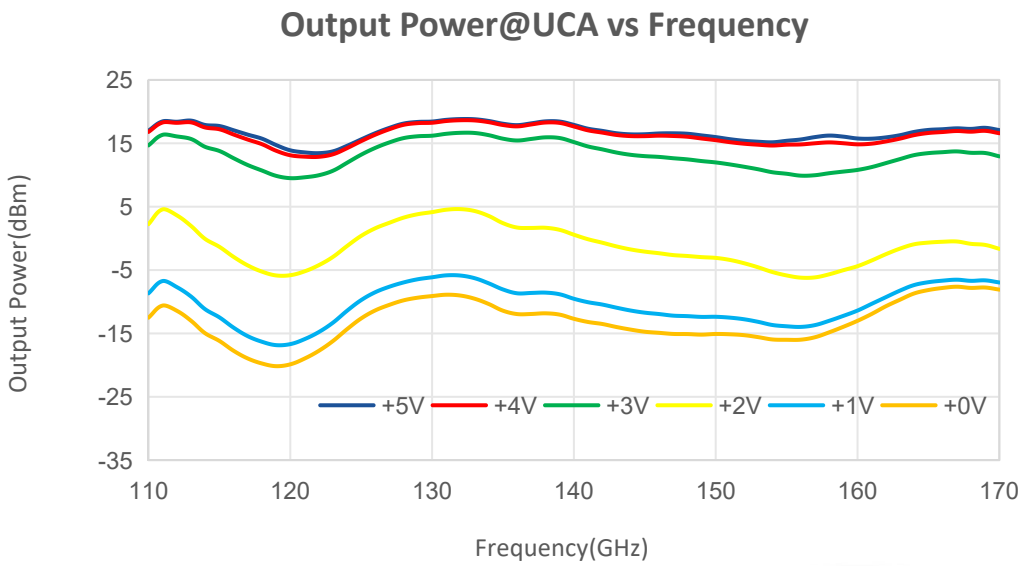
典型曲线 Typical Performance Data:

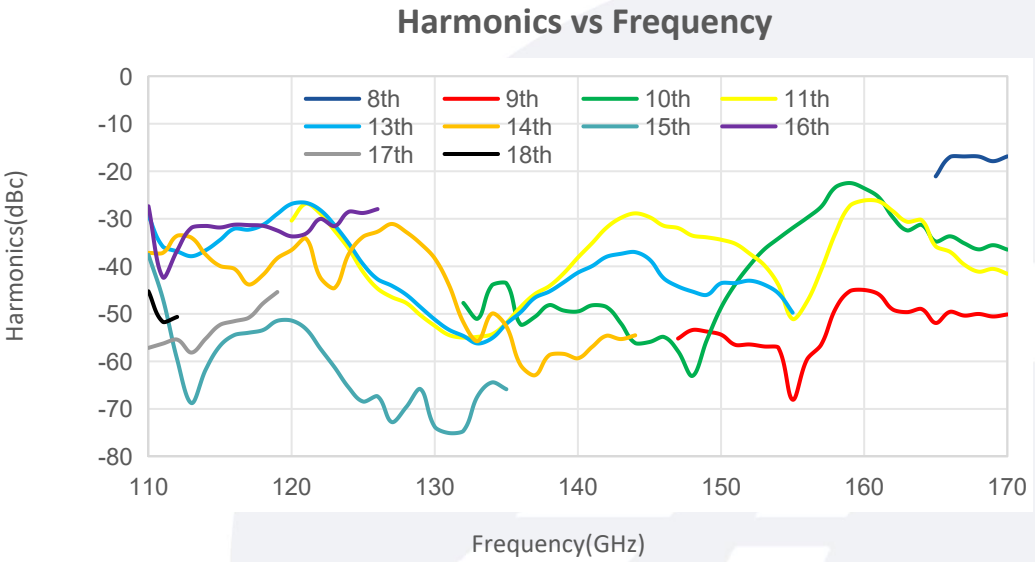


Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

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