泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
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F-Band, Active Frequency Multiplier

WR-08/X8/ 90-140GHz /4dBm Output Power

Model: TMAM-090140-0803-08

TMAM-090140-0803-08 is an active X8 frequency multiplier. The multiplier has an input frequency of 11.25 to 17.5 GHz with a typical input power of +5 dBm and an output frequency of 90 to 140 GHz with output power of +4 dBm. The DC power requirement for the multiplier is +12 V DC/215 mA. The input port configuration is a female SMA connector and the output is a WR-08 waveguide with a UG-387/U-M anti-cocking flange.

Features:

- Output Frequency:90-140 GHz
- Output Power :4 dBm Typ
- Low power consumption

Applications:

- Frequency Extenders
- THz Systems

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Output Frequency	90		140	GHz
Output Power		4		dBm
Input Frequency	11.625		17.5	GHz
Input Power	3	5	7	dBm
Multiply Factor		8		
Harmonic Suppression		-20		dBc
DC Voltage		12		V
DC Supply Current		215		mA

Mechanical Specifications:

Parameter	Value	Units
Output Connector	WR-08/UG-387/U	
Input Connector	SMA Female	
DC Bias	Solder Pin	
Size	50*28*23	mm

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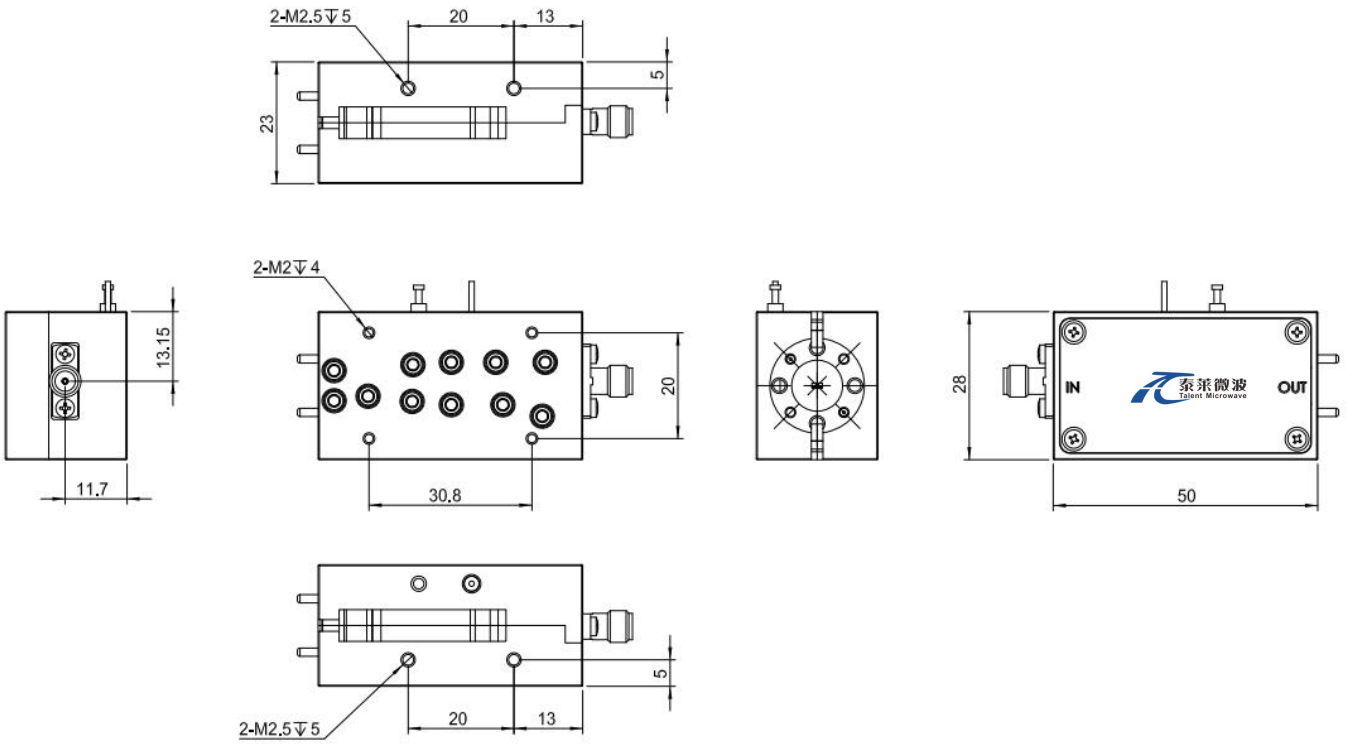
Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+15 V
RF Input Power	+10 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit:mm



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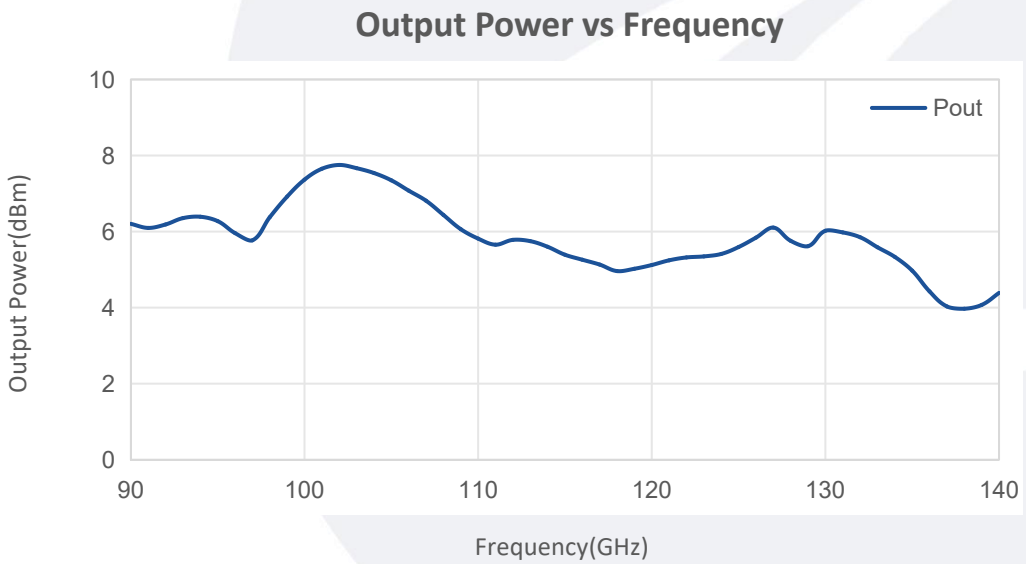
Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-10		+65	℃
Non-operating Temperature	-45		+85	℃
Relative humidity		95		%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

Base Number	Desciption	Revision
TMAM-090140-0803-08	Active Multiplier,X8,90-140 GHz, Output Power:4dBm,WR-08/UG-387/U,SMA Female	Rev.1.1

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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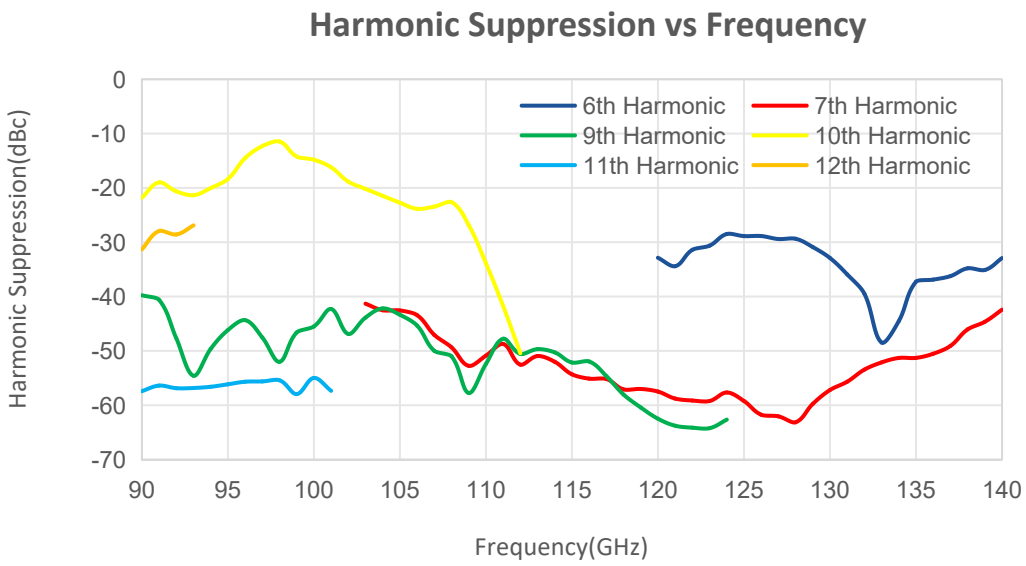

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