泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
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Active Frequency Multiplier

WR-10/X8/86-106GHz/13dBm Output Power Model: TMAM-086106-0813-10

TMAM-086106-0813-10 is an active X8 frequency multiplier. The multiplier has an input frequency of 10.75 to 13.25 GHz with a typical input power of +2 dBm and an output frequency of 86 to 106 GHz with a typical output power of +13 dBm. The DC power requirement for the multiplier is +5 V DC/290 mA. The input port configuration is a female SMA connector and the output is a WR-10 waveguide with a UG-387/U-M anti-cocking flange.

Features:

- Output Frequency: 86-106GHz
- Output Power: 13dBm Typ
- Low power consumption

Applications:

- Frequency Extenders
- THz Systems

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Output Frequency	86		106	GHz
Output Power	12	13	16	dBm
Input Frequency	10.75		13.25	GHz
Input Power		2		dBm
Multiply Factor		8		
Input VSWR		2		:1
Output VSWR		2		:1
DC Voltage		5		V
DC Supply Current		290		mA

Mechanical Specifications:

Parameter	Value	Units
Output Connector	WR-10/UG-387/U	
Input Connector	SMA Female	
DC Bias	Solder Pin	
尺寸 Size	45*34*24	mm

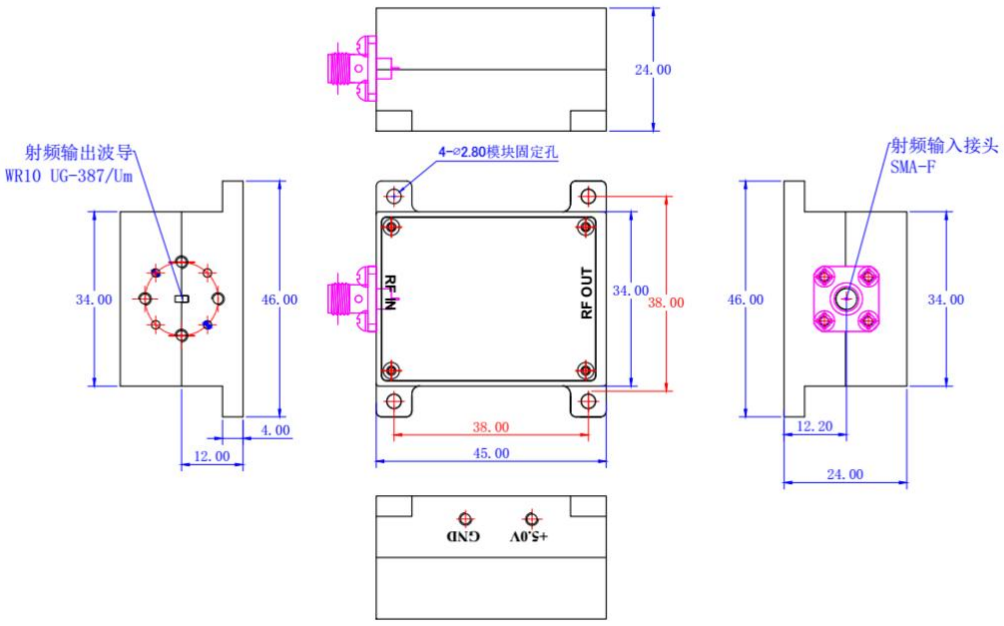
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Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	TBD
RF Input Power	TBD
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit:mm; Tolerance:±0.1mm



ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

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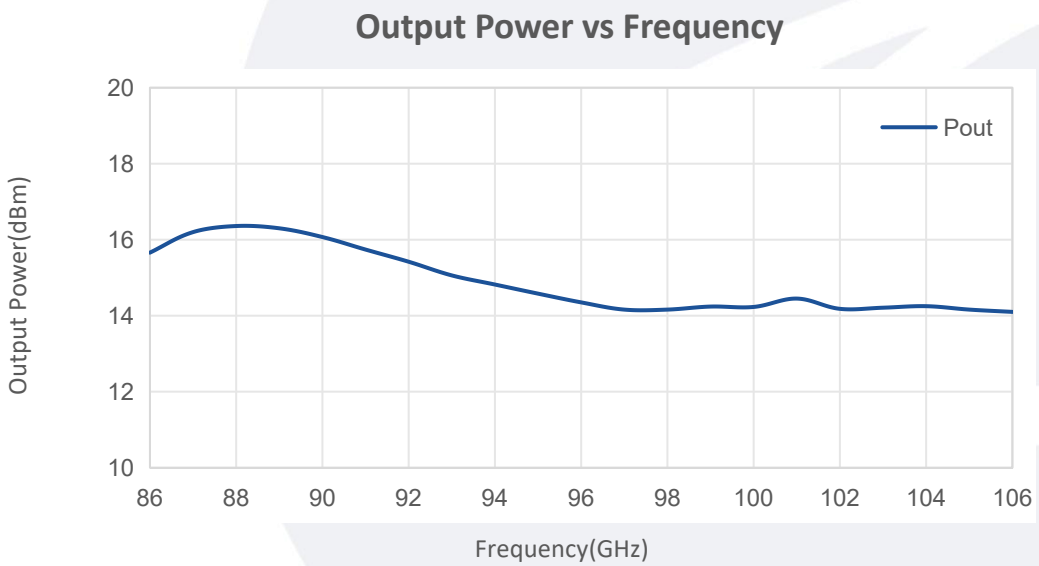
Environmental Conditions:

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	Description	Revision
TMAM-086106-0813-10	Active Multiplier, X8, 86-106GHz, Output Power:13dBm,WR-10/UG-387/U,SMA Female	Rev.1.1

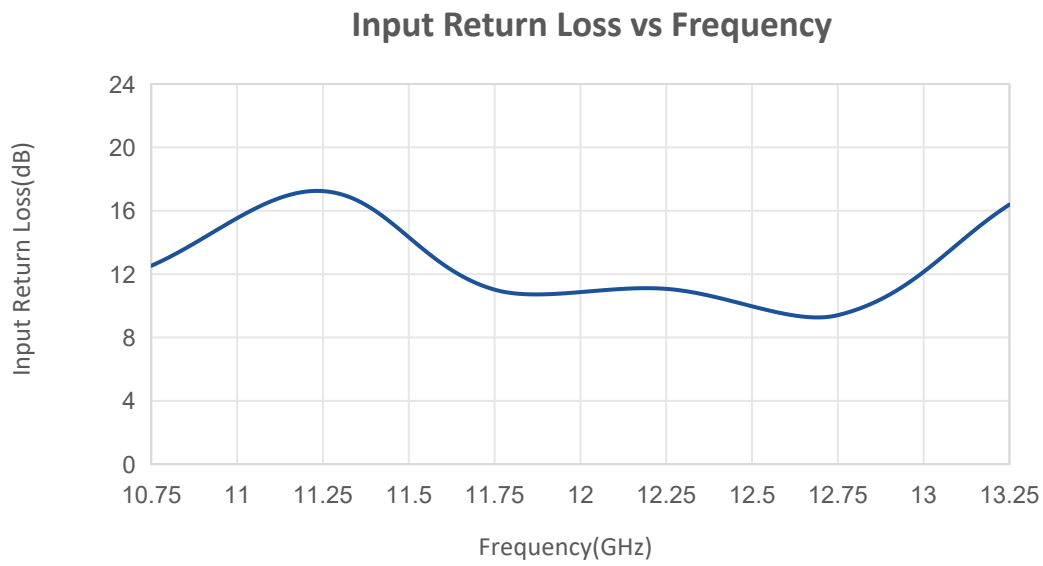
Typical Performance Data:

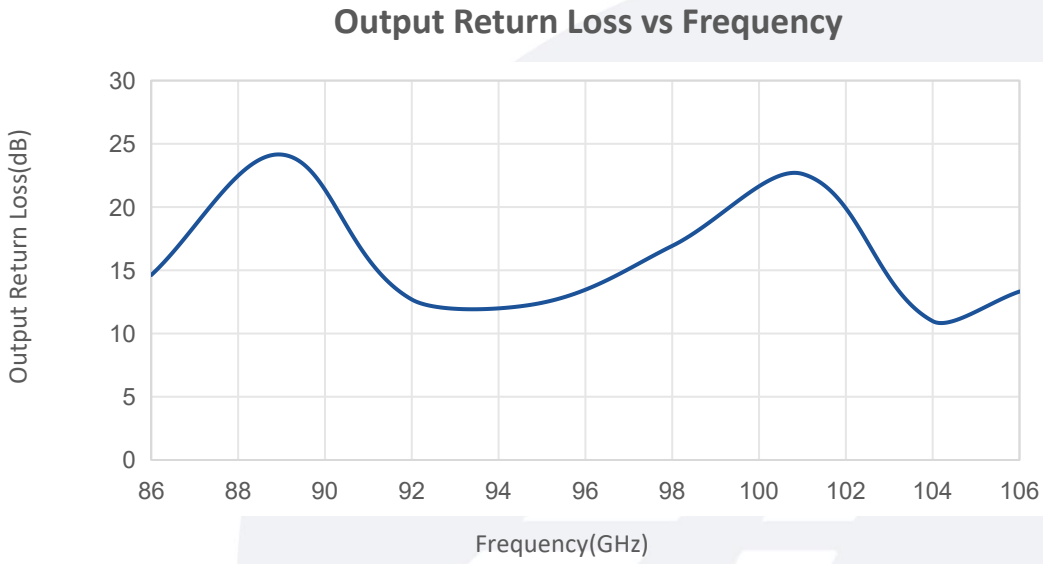


Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

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