泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
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Active Frequency Multiplier

WR-12/X6/80-86GHz/27dBm Output Power Model: TMAM-080086-0627-12

TMAM-080086-0627-12 is an active X6 frequency multiplier. The multiplier has an input frequency of 13.3 to 14.33 GHz with a typical input power of +4 dBm and an output frequency of 80 to 86 GHz with a typical output power of +27 dBm. The DC power requirement for the multiplier is +18 V DC/680 mA. 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: 80-86GHz
- Output Power: 27dBm Typ
- Low power consumption

Applications:

- Frequency Extenders
- THz Systems

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Output Frequency	80		86	GHz
Output Power	26	27		dBm
Input Frequency	13.3		13.33	GHz
Input Power	2	4	8	dBm
Multiply Factor		6		
Input Return Loss		10		dB
Output Return Loss		8		dB
DC Voltage		18		V
Static Current		330		mA
Saturation Current		680		mA

Mechanical Specifications:

Parameter	Value	Units
Output Connector	WR-12/UG-387/U	
Input Connector	SMA Female	
DC Bias	Solder Pin	
Size	56*83.6*68(Without Heatsink) 56*95.6*68(With Heatsink)	mm

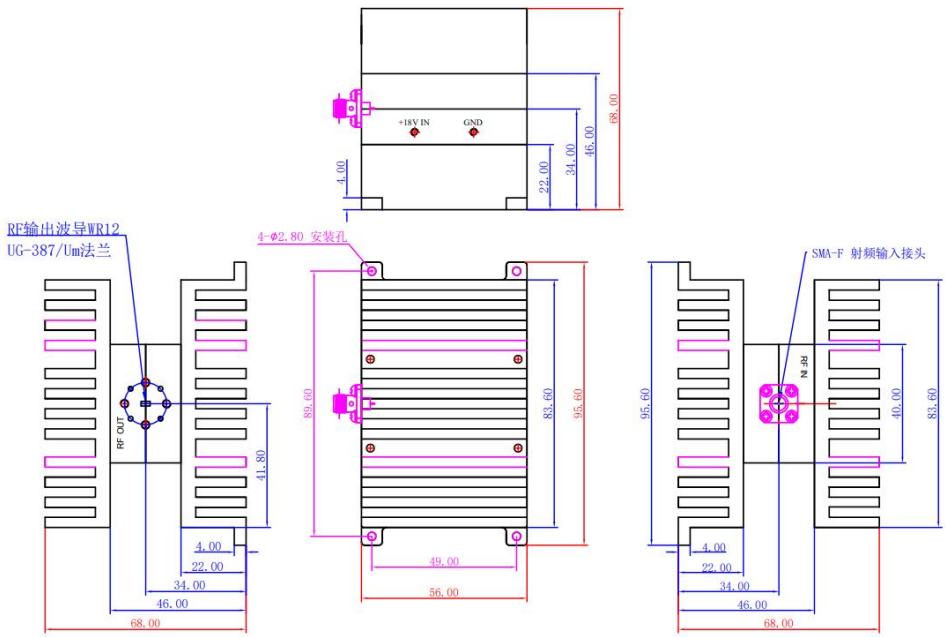
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Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	TBD
RF Input Power	8 dBm
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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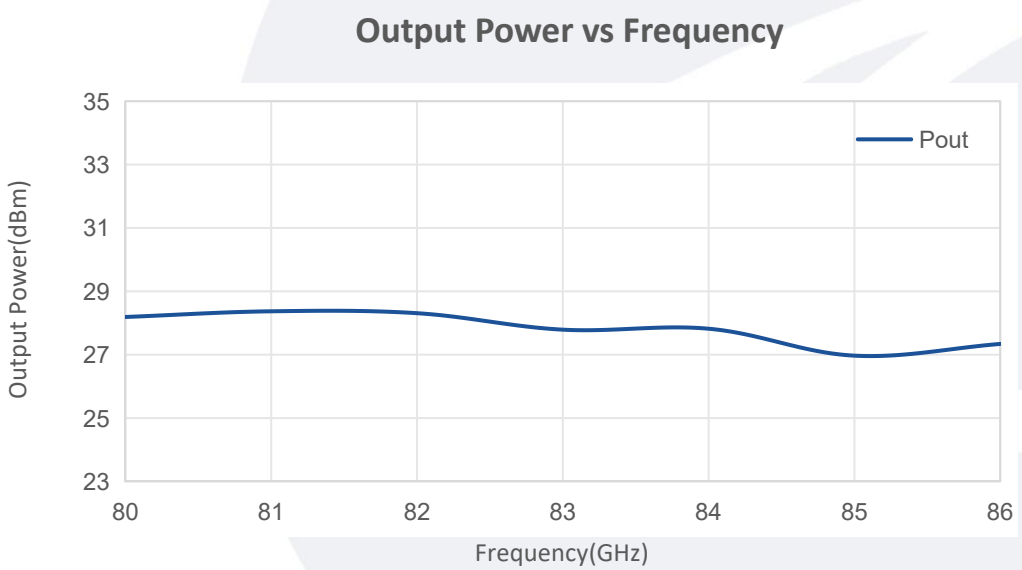
Environmental Conditions:

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-080086-0627-12	Active Multiplier, X6, 80-86GHz, Output Power:27dBm,WR-12/UG-387/U,SMA Female	Rev.1.1

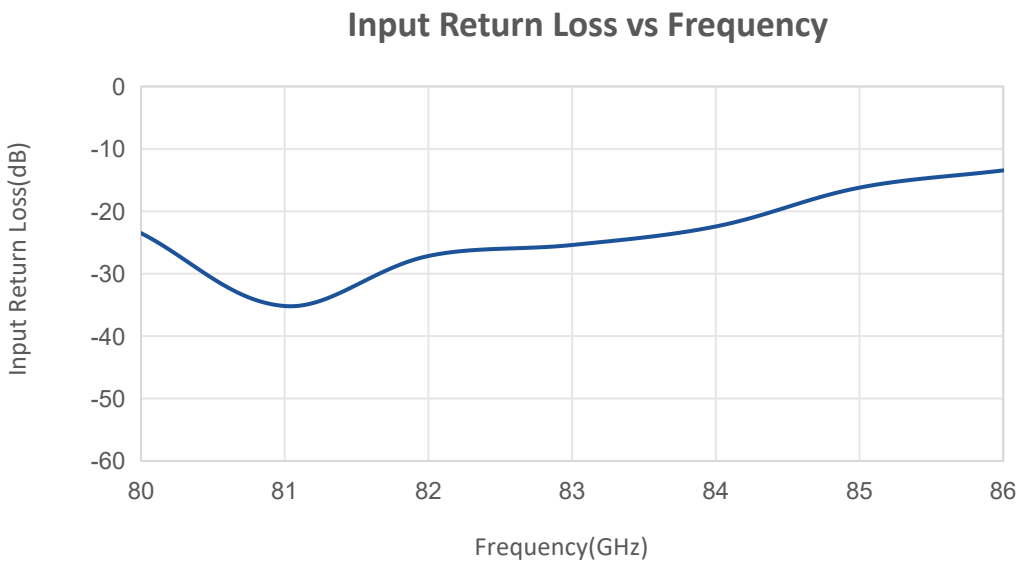
Typical Performance Data:



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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