Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

Frequency Extender

140-220GHz /WR-5.1

Model: TMAM-140220-1206-5.1

TMAM-140220-1206-5.1 frequency extenders are a dedicated Test & Measurement solution for extending the range of your signal source to 140-220 GHz.

Features:

- Frequency range: 140-220GHz
- Output Power: 6dBm Typ
- Low power consumption

Applications:

- Frequency Extension
- Antenna measurements
- Material characterisation

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Input Frequency	11.66		18.33	GHz
Output Frequency	140		220	GHz
Input Power	3	5	7	dBm
Output Power		6		dBm
Multiplication Factor		12		
Power Supply		12		V

Mechanical Specifications:

Parameter	Value	Units
Output Connector	WR-5.1/UG-387/U	
Input Connector	SMA Female	
Power Supply Pin	Solder Pin	
Size	84.1 * 28.38 * 23	mm

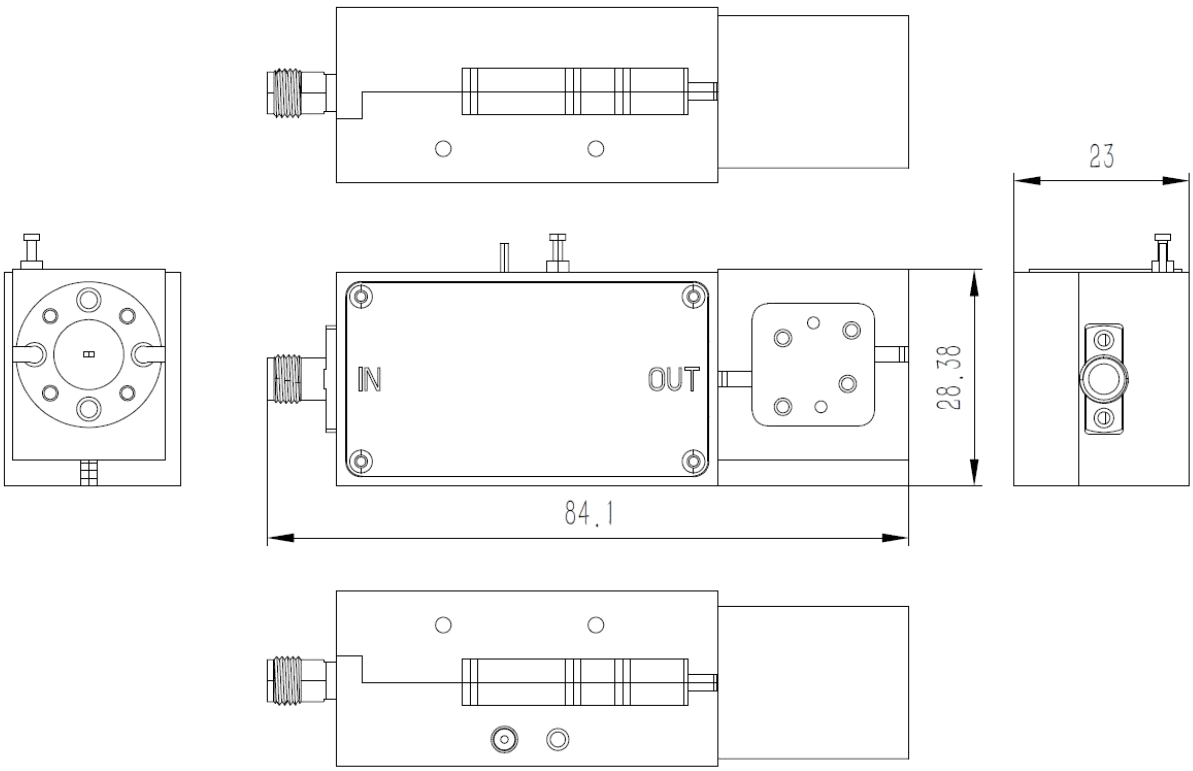
Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

Absolute Maximum Ratings:

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

Outline Drawing:

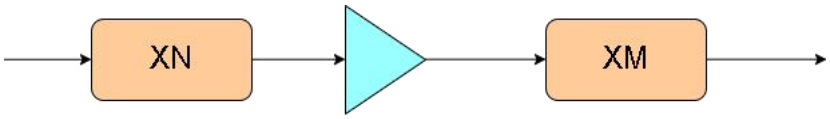
Unit:mm; Tolerance:±0.1mm



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

Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

Block Diagrams:



Envrionmental And Physical Characteristics:

Parameter	Min	Typ	Max	Units
Operating Temperature	-10		+65	℃
Non-operating Temperature	-45		+85	℃
Relative humidity		95		%
Altitude	10,000			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:

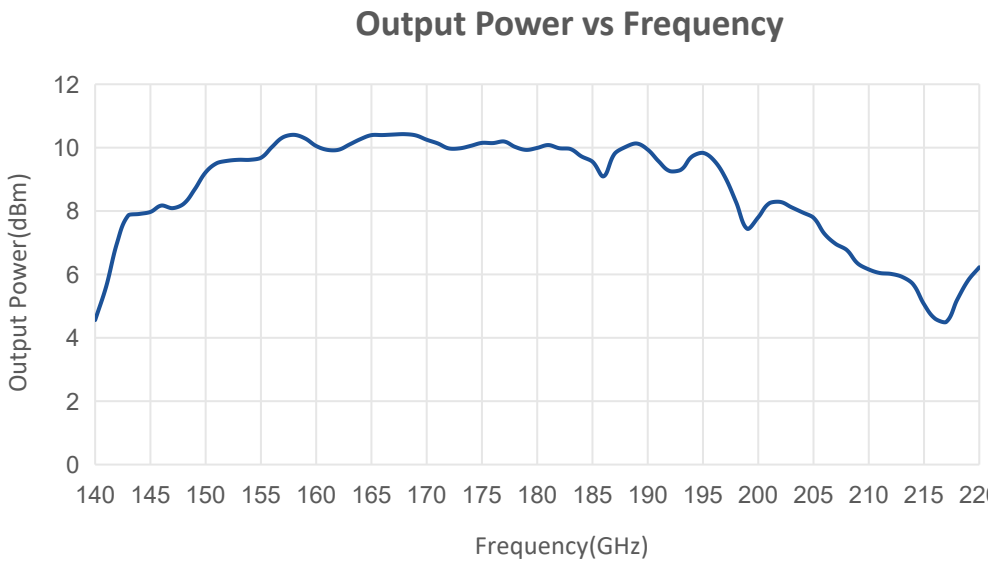
Part Number	Description	Revision
TMAM-140220-1206-5.1	Frequency Extender,X12,140-220GHz, Output Power: 6dBm Typ	Rev.1.0

Components Included:

Part Number	Description	Quantity
TLACTDC-22012	AC-to-DC Power Adapter	1 PCS

Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

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.