泰莱微波 Talent Microwave

Suzhou Talent Microwave,Inc
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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

电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
输入频率 Input Frequency	11.66		18.33	GHz
输出频率 Output Frequency	140		220	GHz
输入功率 Input Power	3	5	7	dBm
输出功率 Output Power		6		dBm
倍频系数 Multiplication Factor		12		
供电电压 Power Supply		12		V

机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
输出端口 Output Connector	WR-5.1/UG-387/U	
输入端口 Input Connector	SMA Female	
供电接口 Power Supply Pin	Solder Pin	
尺寸 Size	84.1 * 28.38 * 23	mm

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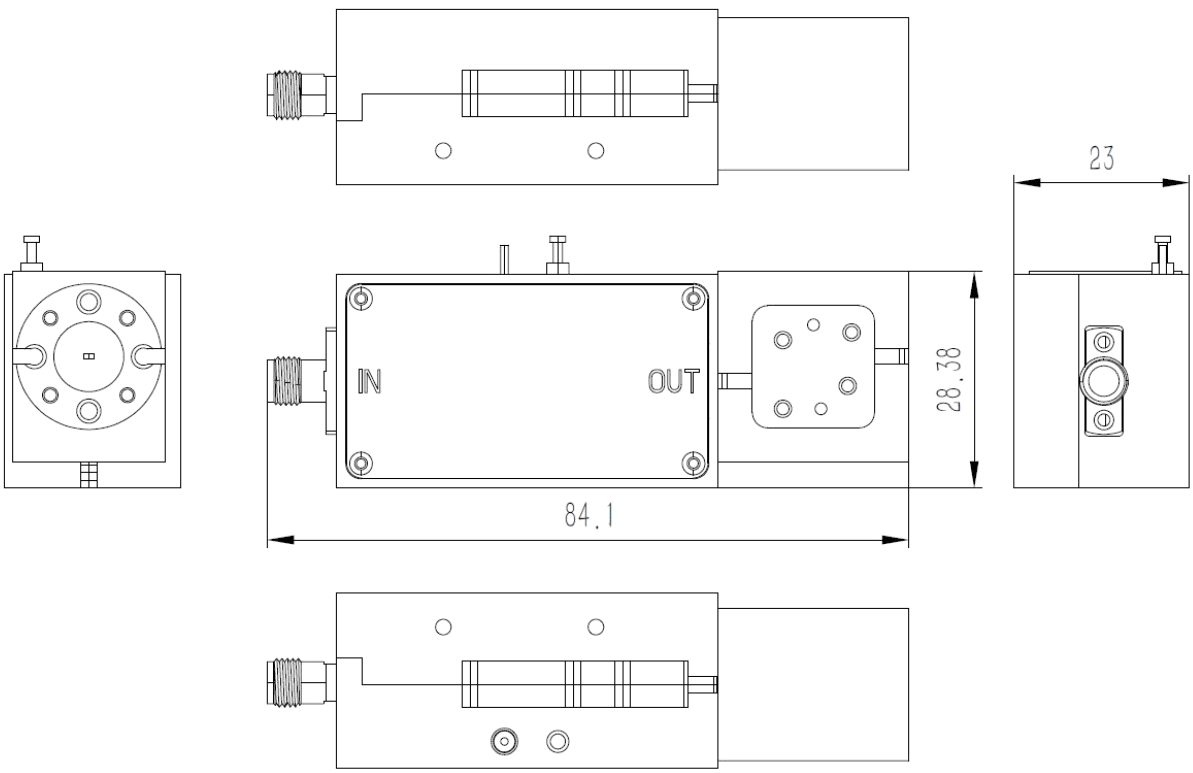
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绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	+15V DC
输入功率 RF Input Power	+10dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形图 Outline Drawing:

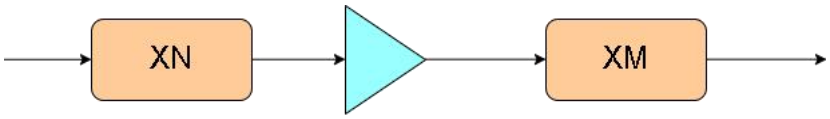
Unit:mm; Tolerance:±0.1mm



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

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原理框图 Block Diagrams:



环境和物理特性 Envrionmental And Physical Characteristics:

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	10,000			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:

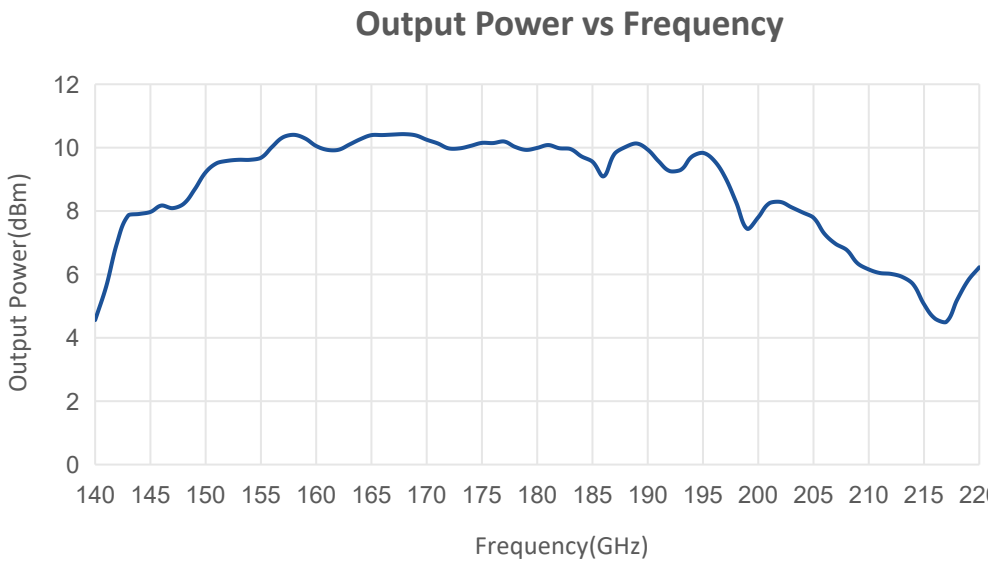
标准型号 Part Number	描述 Description	版本号 Revision
TMAM-140220-1206-5.1	Frequency Extender,X12,140-220GHz, Output Power: 6dBm Typ	Rev.1.0

随货配件 Components Included:

标准型号 Part Number	描述 Description	数量 Quantity
TLACTDC-22012	AC-to-DC Power Adapter	1 PCS

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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.