泰莱微波 Talent Microwave

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# Frequency Extender

## 170-260GHz /WR-4.3

## Model: TMAM-170260-1800-4.3

TMAM-170260-1800-4.3 frequency extenders are a dedicated Test & Measurement solution for extending the range of your signal source to 170-260 GHz.

### Features:

- Frequency range: 170-260GHz
- Output Power: 4dBm 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 | 9.44 | | 14.44 | GHz |
| 输出频率 Output Frequency | 170 | | 260 | GHz |
| 输入功率 Input Power | 3 | 5 | 7 | dBm |
| 输出功率 Output Power | | 4 | | dBm |
| 倍频系数 Multiplication Factor | | 18 | | |
| 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-4.3/UG-387/U | |
| 输入端口 Input Connector | SMA Female | |
| 供电接口 Power Supply Pin | Solder Pin | |
| 尺寸 Size | 86.9 * 28 * 23 | mm |

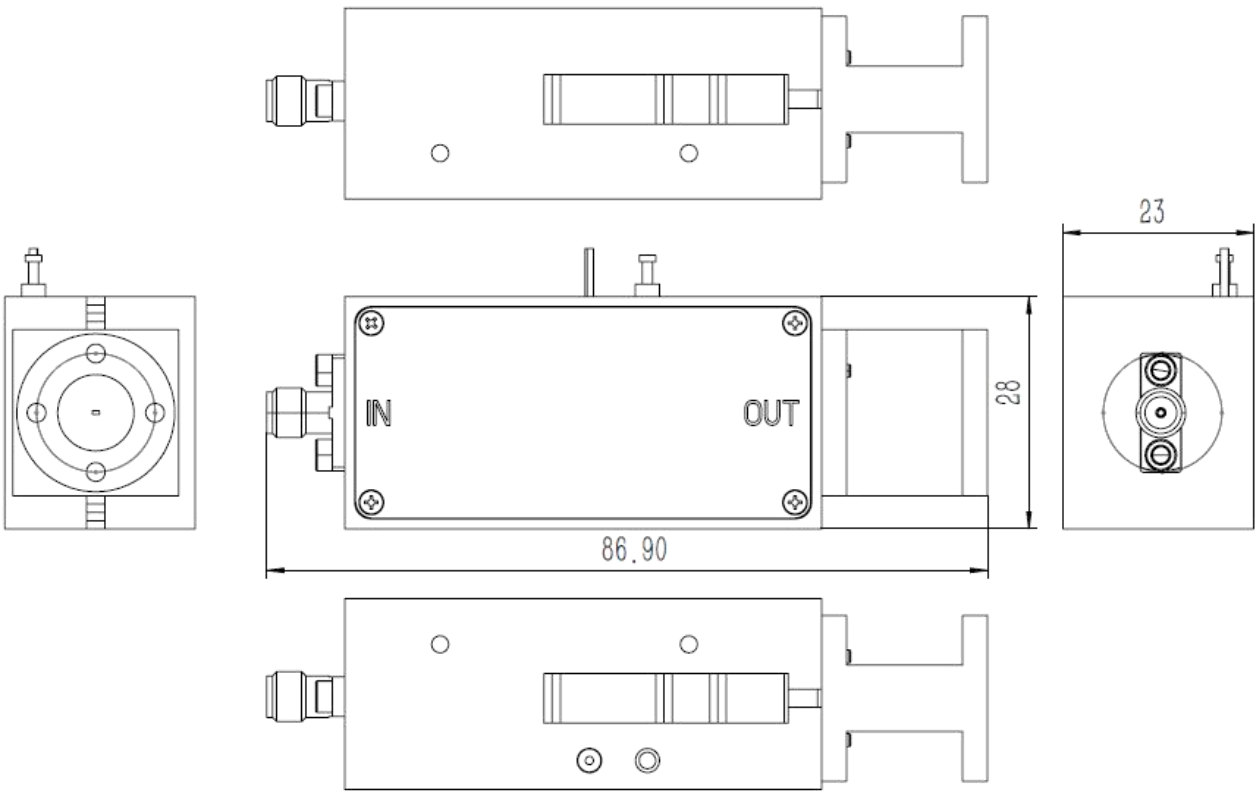
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## 绝对最大值 Absolute Maximum Ratings:

| 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:

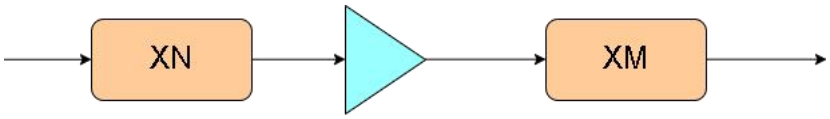
Unit:mm; Tolerance:±0.1mm




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:

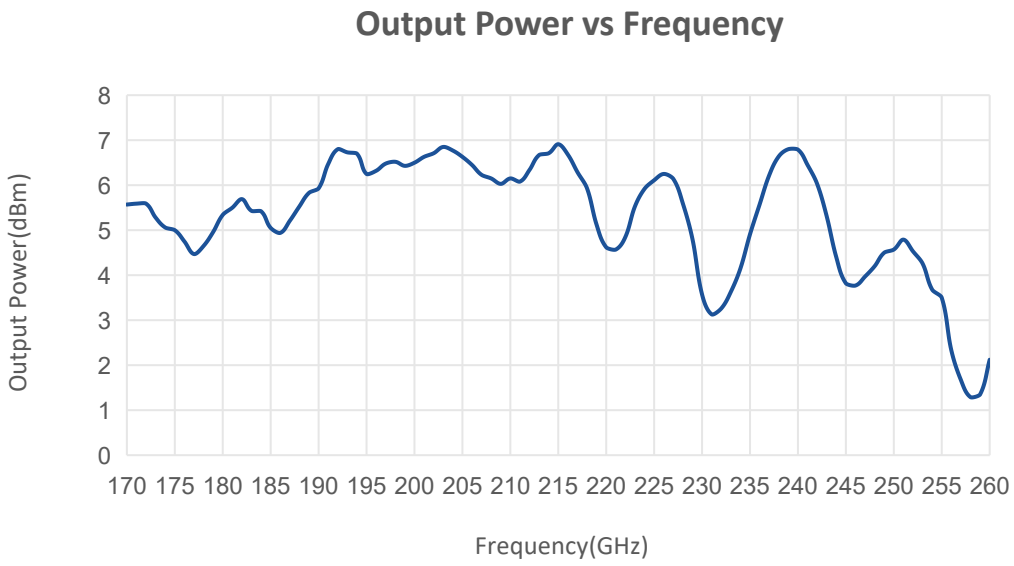
| 标准型号 Part Number | 描述 Description | 版本号 Revision |
|---|---|---|
| TMAM-170260-1800-4.3 | Frequency Extender,X18,170-260GHz, Output Power: 4dBm Typ | Rev.1.0 |

## 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.