

**W-Band, Active Frequency Multiplier**  
**WR-10/X6/67-110GHz/17dBm Output Power**

**TMAM-067110-0617-10**

TURAM-067110061710 is an active X6 frequency multiplier. The multiplier has an input frequency of 11.16 to 18.34 GHz with a typical input power of 5 dBm and an output frequency of 67 to 110 GHz with a typical output power of +17 dBm. The DC power requirement for the multiplier is +12 V DC. 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: 67-110GHz
- Output Power: 17dBm Typ
- Low power consumption

**Applications:**

- Frequency Extenders
- THz Systems

**电气特性 Electrical Characteristics:**

| 参数 Parameter              | Min   | Typ | Max   | 单位 Units |
|---------------------------|-------|-----|-------|----------|
| 输出频率 Output Frequency     | 67    |     | 110   | GHz      |
| 输出功率 Output Power         |       | 17  |       | dBm      |
| 输入频率 Input Frequency      | 11.16 |     | 18.34 | GHz      |
| 输入功率 Input Power          |       | 5   |       | dBm      |
| 倍频次数 Multiply Factor      |       | 6   |       |          |
| 谐波抑制 Harmonic Suppression |       | -20 |       | dBc      |
| 供电电压 DC Voltage           |       | 12  |       | V        |

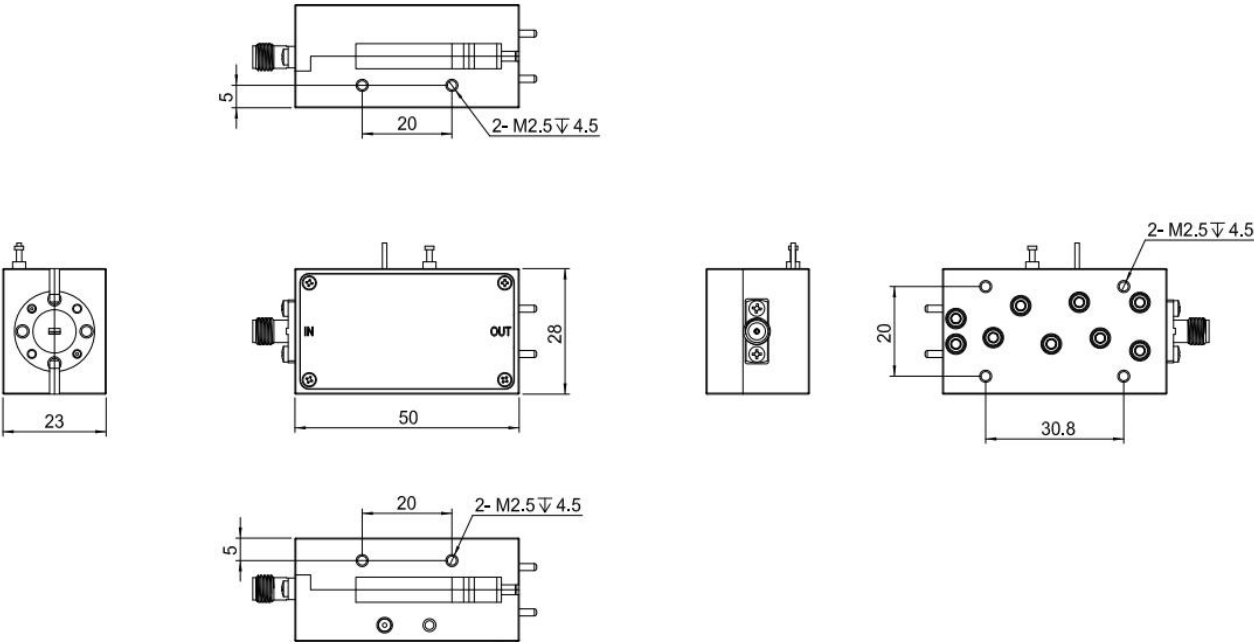
**机械特性 Mechanical Specifications:**

| 参数 Parameter          | 指标 Value       | 单位 Units |
|-----------------------|----------------|----------|
| 输出接口 Output Connector | WR-10/UG-387/U |          |
| 输入接口 Input Connector  | SMA Female     |          |
| 直流偏置 DC Bias          | Solder Pin     |          |

绝对最大值 Absolute Maximum Ratings:

| 参数 Parameter                 | 指标 Value             |
|------------------------------|----------------------|
| 供电偏置电压 Supply Bias Voltage   | +15 V                |
| 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





温度环境 Environmental Conditions:

| 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                        | 50,000                                              |     |     | 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 Base Number   | 描述 Description                                                               | 版本号 Revision |
|--------------------|------------------------------------------------------------------------------|--------------|
| TURAM-067110061710 | Active Multiplier,X6,67-110GHz, Output Power:17dBm,WR-10/UG-387/U,SMA Female | Rev.1.1      |