

**Model:TMPM-075110-0202-10**
**Passive Frequency Tripler  
 X2,75-110 GHz,2 dBm Output Power**
**Feature:**

- Output Frequency:75-110 GHz
- Output Power:2dBm Typ
- Compactness,High Power&Efficiency

**Electrical Specifications:**

| Parameter        | Min  | Typ | Max | Units |
|------------------|------|-----|-----|-------|
| Output Frequency | 75   |     | 110 | GHz   |
| Input Frequency  | 37.5 |     | 55  | GHz   |
| Output Power     | -1   | 2   | 4   | dBm   |
| Input Power      | 13   | 16  | 18  | dBm   |
| Multiply Factor  |      | 2   |     |       |
| Input VSWR       |      | 2   |     | :1    |
| Output VSWR      |      | 2.5 |     | :1    |

**Mechanical Specifications:**

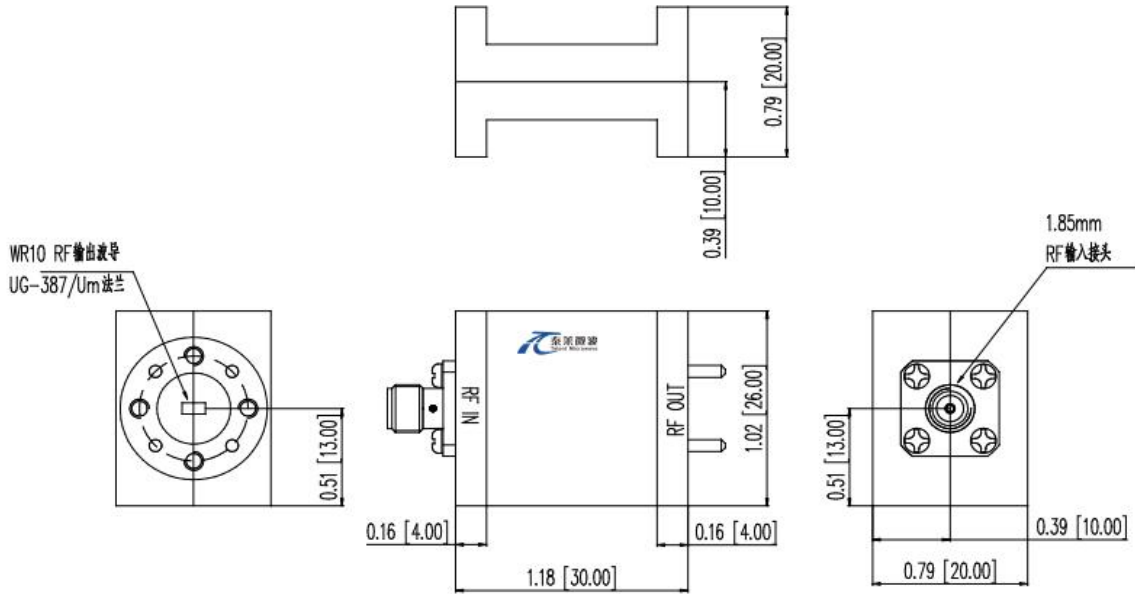
| Parameter        | Value          | Units |
|------------------|----------------|-------|
| Output Connector | WR-10/UG-387/U |       |
| Input Connector  | 1.85mm Female  |       |
| Size             | 30*26*20       | mm    |

**Absolute Maximum Ratings:**

| Parameter             | Value                |
|-----------------------|----------------------|
| RF Input Power        | 5dBm                 |
| ESD sensitivity (HBM) | Class 0, passed 150V |

Outline Drawing:

Unit: mm



OBSERVE PRECAUTIONS  
ELECTROSTATIC SENSITIVE  
DEVICES

Environmental Conditions:

| Parameter                       | Min   | Typ | Max | Units |
|---------------------------------|---|-----|-----|-------|
| Operating Temperature           | -10   |     | +65 | °C    |
| Non-operating Temperature       | -25   |     | +75 | °C    |
| 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:

| Part Number         | Description  | Revision |
|---------------------|--|----------|
| TMPM-075110-0202-10 | Passive Frequency Tripler<br>X2,75-110GHz, 2dBm Output Power,WR-10 | Rev.1.1  |