

## Model:TMPM-110170-0210-06

## D-Band Passive Frequency Doubler X2, 110-170 GHz ,10 dBm Output Power,

### Feature:

- Output Frequency: 110-170 GHz
- Output Power : 10 dBm Typ
- Compactness, HighPower & Efficiency

### Electrical Specifications:

| Parameter        | Min. | Typ. | Max. | Units |
|------------------|------|------|------|-------|
| Output Frequency | 110  |      | 170  | GHz   |
| Output Power     |      | 10   |      | dBm   |
| Input Frequency  | 55   |      | 85   | GHz   |
| Input Power      |      | 20   | 26   | dBm   |
| Multiply Factor  |      | 2    |      |       |
| Bis Voltage      | 0    | -8   | -10  | V     |

### Mechanical Specifications:

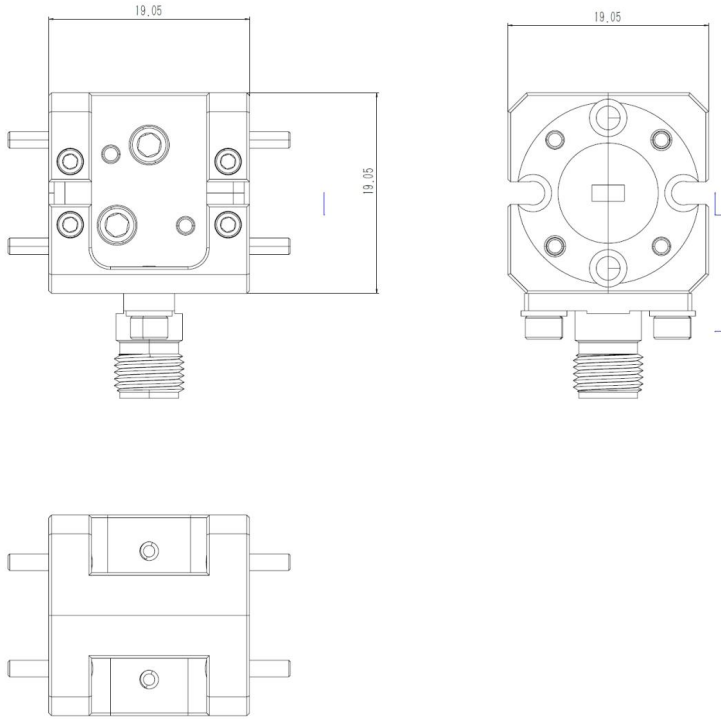
| Parameter        | Value             | Units |
|------------------|-------------------|-------|
| Output Connector | WR-06/UG-387      |       |
| Input Connector  | WR-12/UG-387      |       |
| Bias Connector   | SMA Female        |       |
| Size             | 19.05×19.05×19.05 | mm    |
| Weight           | 45                | g     |

### Absolute Maximum Ratings:

| Parameter             | Value                |
|-----------------------|----------------------|
| RF Input Power        | +26 dBm              |
| ESD sensitivity (HBm) | Class 0, passed 150V |

**Outline Drawing:**

Unit: mm



**Environmental Conditions:**

| Parameter                       | Min.                                                | Typ. | Max. | 单位Units |
|---------------------------------|-----------------------------------------------------|------|------|---------|
| Operating Temperature           | -45                                                 |      | +85  | °C      |
| Non-operating Temperature       | -55                                                 |      | +125 | °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-110170-0210-06 | D-Band Passive Frequency Doubler<br>X2, 110-170 GHz ,10 dBm Output Power, WR-06 | Rev.1.1  |