

## Model:TMAM-170260-1800-04

**Active Frequency Multiplier,  
X18,170-260 GHz, 0 dBm Output Power**

### Feature:

- Output Frequency:170-260 GHz
- Output Power : 0dBm Typ
- Low power consumption

### Electrical Specifications:

| Parameter         | Min  | Typ | Max   | Units |
|-------------------|------|-----|-------|-------|
| Output Frequency  | 170  |     | 260   | GHz   |
| Output Power      |      | 0   |       | dBm   |
| Input Frequency   | 9.44 |     | 14.44 | GHz   |
| Input Power       |      | +5  | +10   | dBm   |
| Multiply Factor   |      | 18  |       | Time  |
| Harmonics         |      | -20 |       | dBc   |
| Input VSWR        |      | 2.0 |       | :1    |
| Output VSWR       |      | 2.0 |       | :1    |
| DC Voltage        |      | 12  |       | V     |
| DC Supply Current |      | 200 |       | mA    |

### Mechanical Specifications:

| Parameter        | Value          | Units |
|------------------|----------------|-------|
| Output Connector | WR-04/UG-387/U |       |
| Input Connector  | SMA Female     |       |
| Bias             | Solder Pin     |       |
| Size             | 67.3*36*24     | mm    |

### Absolute Maximum Ratings:

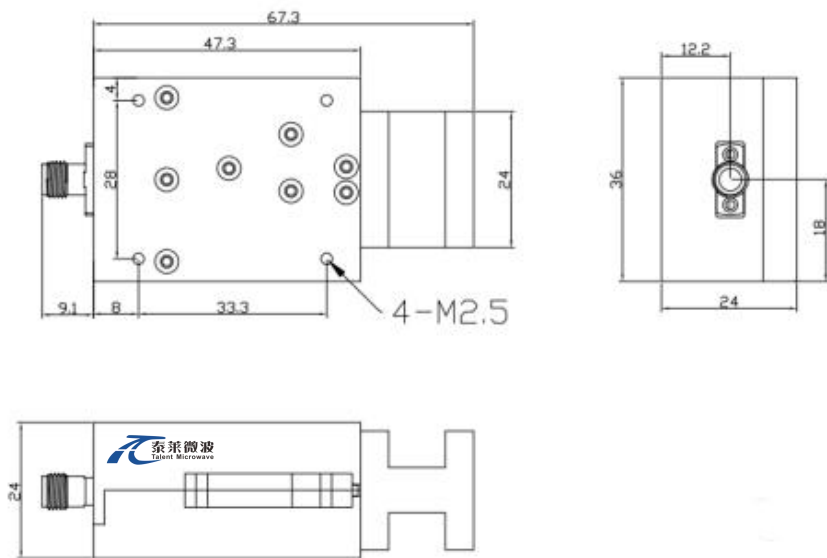
| Parameter             | Value                |
|-----------------------|----------------------|
| Supply Bias Voltage   | +13V                 |
| RF Input Power        | +10 dbm              |
| ESD sensitivity (HBm) | Class 0, passed 150V |



**Available 220V System  
Benchtop Amplifier**

## Outline Drawing:

Unit: mm



OBSERVE PRECAUTIONS  
ELECTROSTATIC SENSITIVE  
DEVICES

## Environmental Conditions:

| Parameter                       | Min                                                 | Typ | Max | Units |
|---------------------------------|-----------------------------------------------------|-----|-----|-------|
| Operating Temperature           | -10                                                 |     | +65 | °C    |
| Non-operating Temperature       | -55                                                 |     | +85 | °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 |
|---------------------|-------------------------------------------------------------------------------|----------|
| TMAM-170260-1800-04 | Active Multiplier,X18,170-260GHz, Output Power:0dBm,SMA Female,WR-04/UG-387/U | Rev.1.1  |