

## Model:TMAM-071086-0612-12

## Active Frequency Multiplier X6,71-86GHz, 12dBm Output Power

### Feature:

- Output Frequency:71-86GHz
- Output Power :12 dBm Typ
- Low power consumption

### Electrical Specifications:

| Parameter         | Min   | Typ | Max   | Units |
|-------------------|-------|-----|-------|-------|
| Output Frequency  | 71    |     | 86    | GHz   |
| Output Power      |       | 20  |       | dBm   |
| Input Frequency   | 11.83 |     | 14.33 | GHz   |
| Input Power       |       | 6   |       | dBm   |
| Multiply Factor   |       | 6   |       | Time  |
| Input VSWR        |       | 2   |       | :1    |
| Output VSWR       |       | 2   |       | :1    |
| DC Voltage        |       | 5.5 |       | V     |
| DC Supply Current |       | 130 |       | mA    |

### Mechanical Specifications:

| Parameter        | Value          | Units |
|------------------|----------------|-------|
| Output Connector | WR-12/UG-387/U |       |
| Input Connector  | SMA Female     |       |
| DC Bias          | Solder Pin     |       |
| Size             | 42*24*30       | mm    |

### Absolute Maximum Ratings:

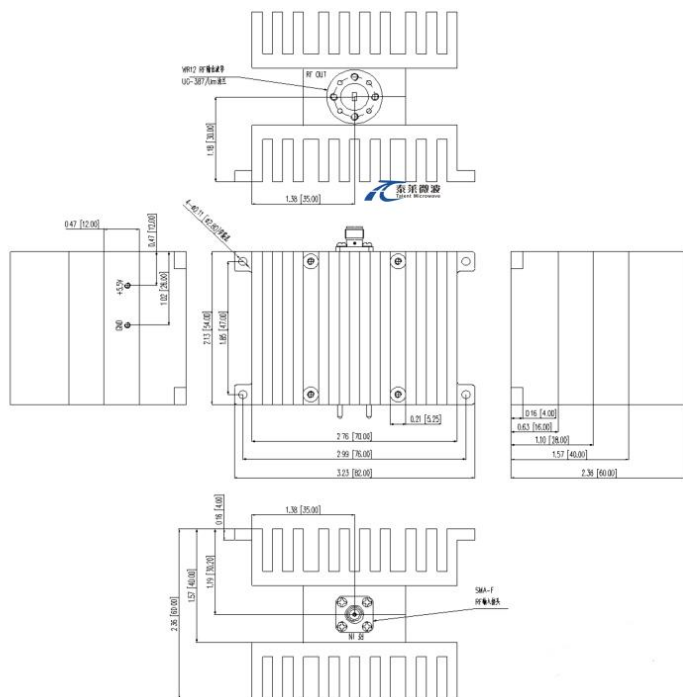
| Parameter             | Value                |
|-----------------------|----------------------|
| Supply Bias Voltage   | 5.5V                 |
| RF Input Power        | 10dBm                |
| ESD sensitivity (HBm) | Class 0, passed 150V |



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       | -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 |
|---------------------|-----------------------------------------------------------------------------|----------|
| TMAM-071086-0612-12 | Active Multiplier,X6,71-86GHz, Output Power:12dBm,WR-12/UG-387/U,SMA Female | Rev.1.1  |

Typical Performance Data:

Output Power vs Frequency

