

## Model:TMAM-88.5G94.5G-0613-10

**Active Frequency Multiplier,  
X6,88.5-94.5GHz, 13dBm Output Power**

### Feature:

- Output Frequency:88.5-94.5GHz
- Output Power : 13 dBm Typ
- Low power consumption

### Electrical Specifications:

| Parameter         | Min   | Typ | Max   | Units |
|-------------------|-------|-----|-------|-------|
| Output Frequency  | 88.5  |     | 94.5  | GHz   |
| Output Power      | 12    | 13  |       | dBm   |
| Input Frequency   | 14.75 |     | 15.75 | GHz   |
| Input Power       | 5     | 6   | 8     | dBm   |
| Multiply Factor   |       | 6   |       | Time  |
| Harmonics         |       | -45 | -35   | dBc   |
| Input VSWR        |       | 2   |       | :1    |
| Output VSWR       |       | 2   |       | :1    |
| DC Voltage        | 6     |     |       | V     |
| DC Supply Current |       | 380 |       | mA    |

### Mechanical Specifications:

| Parameter        | Value          | Units |
|------------------|----------------|-------|
| Output Connector | WR-10/UG-387/U |       |
| Input Connector  | SMA Female     |       |
| DC Bias          | Solder Pin     |       |
| Size             | 52*30*24       | mm    |

### Absolute Maximum Ratings:

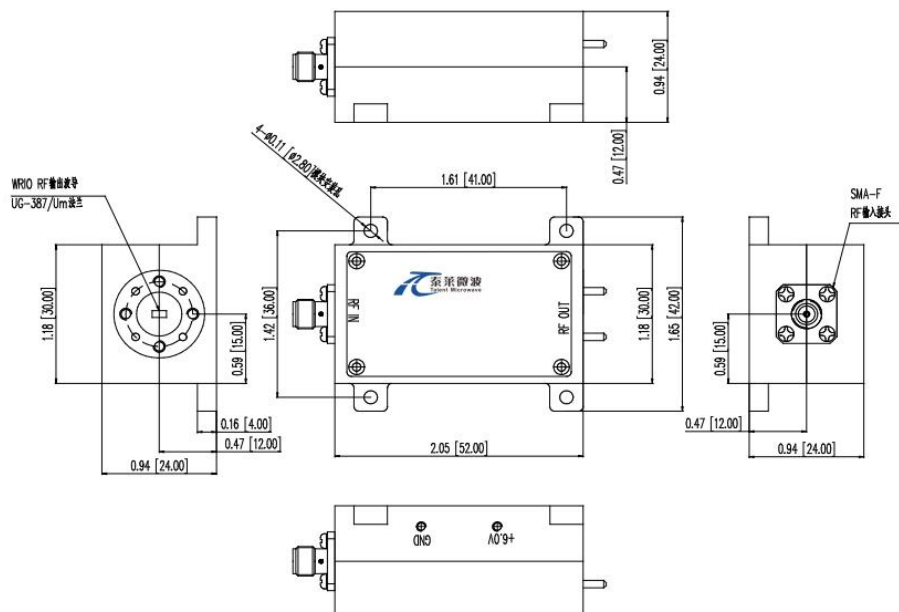
| Parameter             | Value                |
|-----------------------|----------------------|
| Supply Bias Voltage   | /                    |
| RF Input Power        | +8 dbm               |
| ESD sensitivity (HBm) | Class 0, passed 150V |



**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       | -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-88.5G94.5G-0613-10 | Active Multiplier,X6,88.5-94.5GHz, Output Power:13dBm,WR-10/UG-387/U,SMA Female | Rev.1.1  |