

## Active Frequency Multiplier

1.85mm/X3/36-57GHz /27dBm Output Power

Model: TLAM-036057-0327-V

TLAM-036057-0327-V is an active X4 frequency multiplier. The multiplier has an input frequency of 12 to 19 GHz with a typical input power of +5 dBm and an output frequency of 36 to 57 GHz with a typical output power of +27 dBm. The DC power requirement for the multiplier is +12 V DC/580 mA. The input port configuration is a female SMA connector and the output port configuration is a female 1.85mm connector.

### Features:

- Output Frequency:36-57GHz
- Output Power :27dBm Typ
- Low power consumption

### Applications:

- Frequency Extenders
- THz Systems

## 电气特性 Electrical Characteristics:

| 参数 Parameter           | Min | Typ | Max | 单位 Units |
|------------------------|-----|-----|-----|----------|
| 输出频率 Output Frequency  | 36  |     | 57  | GHz      |
| 输出功率 Output Power      |     | 27  |     | dBm      |
| 输入频率 Input Frequency   | 12  |     | 19  | GHz      |
| 输入功率 Input Power       | 3   | 5   | 7   | dBm      |
| 倍频次数 Multiply Factor   |     | 3   |     |          |
| 供电电压 DC Voltage        |     | 12  |     | V        |
| 供电电流 DC Supply Current |     | 580 |     | mA       |

## 机械特性 Mechanical Specifications:

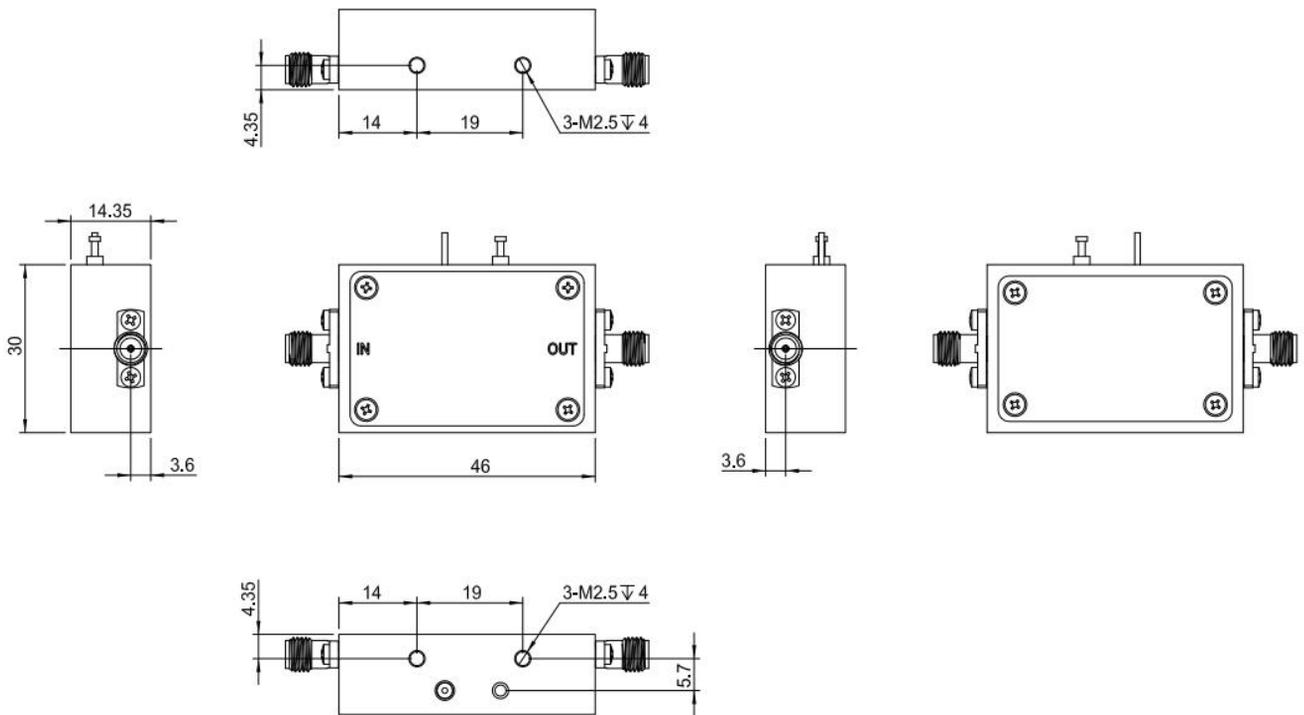
| 参数 Parameter          | 指标 Value      | 单位 Units |
|-----------------------|---------------|----------|
| 输出接口 Output Connector | 1.85mm Female |          |
| 输入接口 Input Connector  | SMA Female    |          |
| 直流偏置 DC Bias          | Solder Pin    |          |

尺寸

## 绝对最大值 Absolute Maximum Ratings:

| 参数 Parameter                 | 指标 Value             |
|------------------------------|----------------------|
| 供电偏置电压 Supply Bias Voltage   | +15 V                |
| 输入功率 RF Input Power          | +10 dBm              |
| ESD灵敏度 ESD sensitivity (HBm) | Class 0, passed 150V |

## 外形图 Outline Drawing: Unit:mm



### 温度环境 Environmental Conditions:

| 参数 Parameter                       | Min   | Typ | Max | 单位 Units |
|------------------------------------|---|-----|-----|----------|
| 操作温度 Operating Temperature         | -10   |     | +65 | °C       |
| 存储温度 Non-operating Temperature     | -45   |     | +85 | °C       |
| 相对湿度 Relative humidity             |   | 95  |     | %        |
| 海拔 Altitude                        | 50,000  |     |     | feet     |
| 震动 Shock / Vibration(MIL-STD-810F) | 25g rms (15 degree 2KHz) endurance, 1 hour per axis |     |     |          |
| 冲击 Shock(non operating)            | 20G for 11msc half sin wave,3 axis both directions  |     |     |          |

### 订货信息 Ordering Information:

| 标准型号 Base Number   | 描述 Description   | 版本号 Revision |
|--------------------|--|--------------|
| TLAM-036057-0327-V | Active Multiplier,X3,36-57GHz, Output Power:27dBm,1.85mm Female,SMA Female | Rev.1.1      |

### 典型曲线 Typical Performance Data:

Output Power vs Frequency

