

Active Frequency Multiplier  
X4/32-50GHz/0dBm Output Power

TLAM-3250-0400-2.4

TURAM-325004002.4 is an active X4 frequency multiplier. The multiplier has an input frequency of 8 to12.5 GHz with a typical input power of -10 dBm and an output frequency of 32 to 50 GHz with a typical output power of 0 dBm. The DC power requirement for the multiplier is +12 V DC/90 mA. The input port configuration is female SMA connector. The output port configuration is female 2.4 connector.

Features:

- Output Frequency: 32-50GHz
- Output Power: 0dBm Typ
- Low power consumption
- 50 Ohm Matched Input / Output

Applications:

- Synthesizers
- Local oscillators

电气特性 Electrical Characteristics:

| 参数 Parameter          | Min | Typ | Max  | 单位 Units |
|-----------------------|-----|-----|------|----------|
| 输出频率 Output Frequency | 32  |     | 50   | GHz      |
| 输出功率 Output Power     |     | 0   |      | dBm      |
| 输入频率 Input Frequency  | 8   |     | 12.5 | GHz      |
| 输入功率 Input Power      | -10 |     | 0    | dBm      |
| 倍频次数 Multiply Factor  |     | 4   |      |          |
| 基波 1st Harmonic       |     | -20 |      | dBc      |
| 2次谐波 2nd armonic      |     | -10 |      | dBc      |
| 3次谐波 3rd Harmonic     |     | -10 |      | dBc      |
| 供电电压 DC Voltage       | +8  | +12 | +15  | V        |
| 供电电流DC Supply Current |     | 90  |      | mA       |

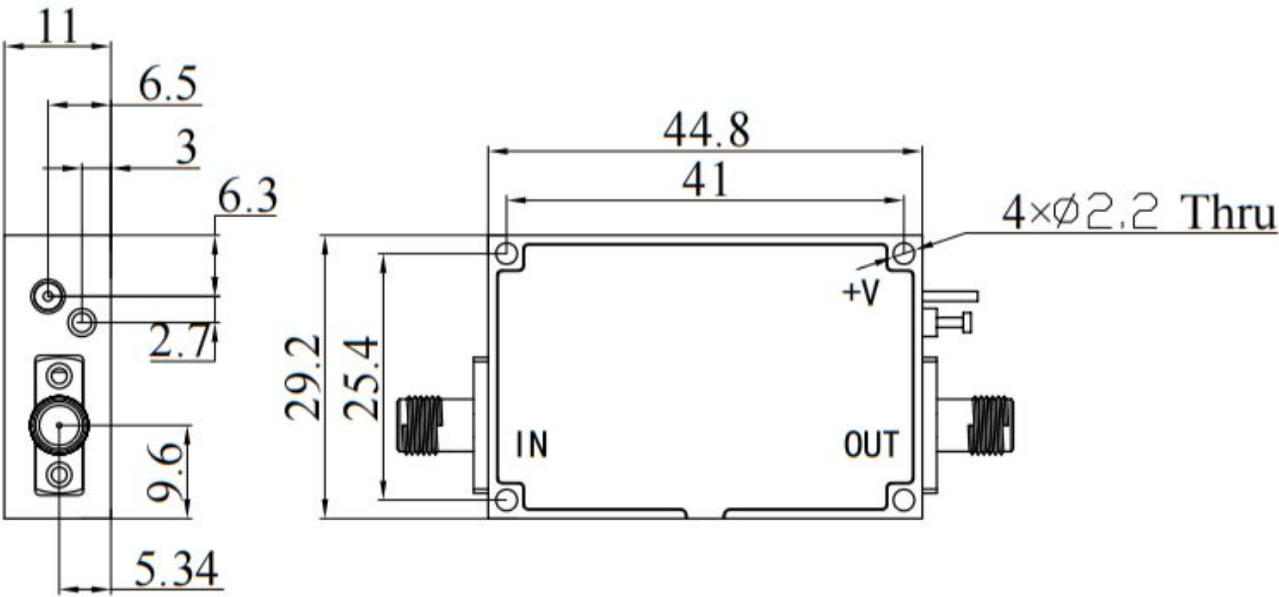
机械特性 Mechanical Specifications:

| 参数 Parameter          | 指标 Value     | 单位 Units |
|-----------------------|--------------|----------|
| 输出接口 Output Connector | 2.4mm Female |          |
| 输入接口 Input Connector  | SMA Female   |          |

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          | +5dBm                |
| ESD灵敏度 ESD sensitivity (HBm) | Class 0, passed 150V |

外形图 Outline Drawing: Unit:mm





ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

温度环境 Environmental Conditions:

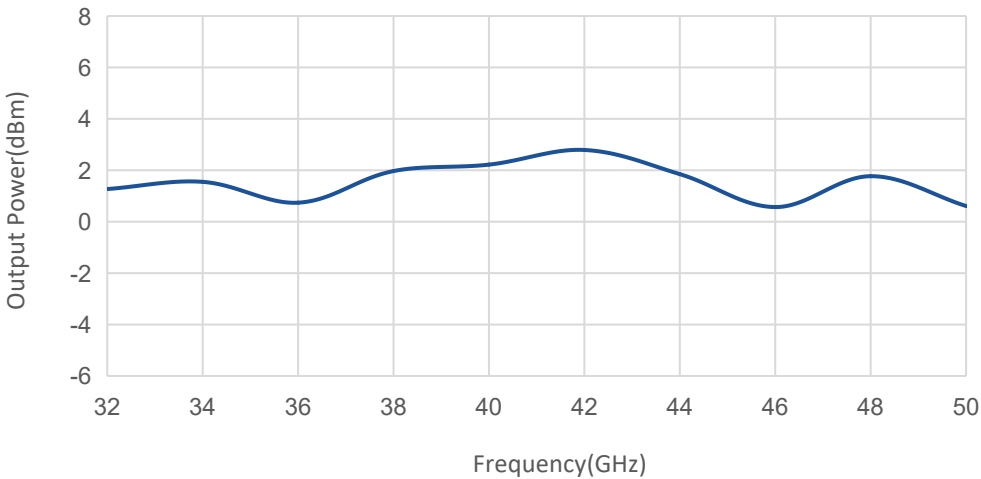
| 参数 Parameter                   | Min | Typ    | Max | 单位 Units |
|--------------------------------|-----|--------|-----|----------|
| 操作温度 Operating Temperature     | -10 |        | +65 | ℃        |
| 存储温度 Non-operating Temperature | -45 |        | +85 | ℃        |
| 相对湿度 Relative humidity         |     | 95     |     | %        |
| 海拔 Altitude                    |     | 10,000 |     | feet     |

订货信息 Ordering Information:

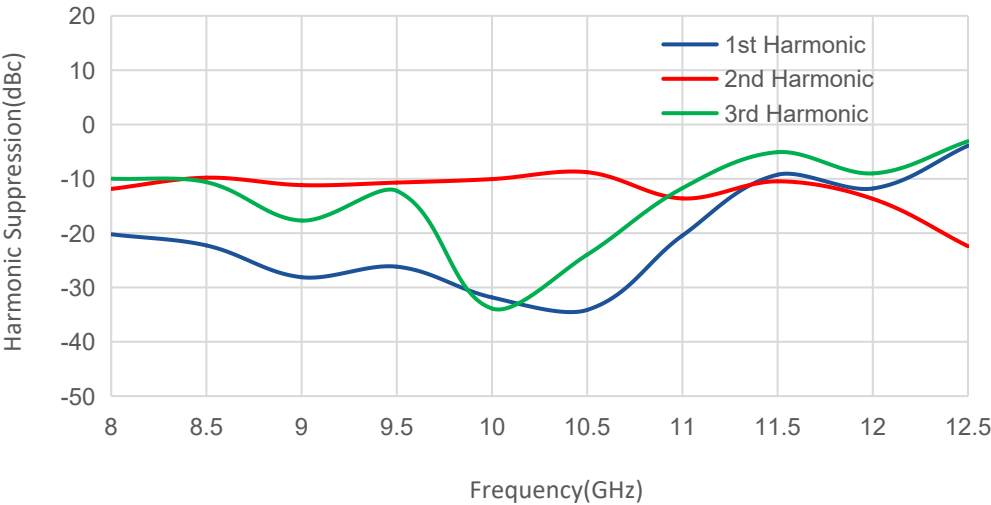
| 标准型号 Base Number  | 描述 Description                                                            | 版本号 Revision |
|-------------------|---------------------------------------------------------------------------|--------------|
| TURAM-325004002.4 | Active Multiplier,X4, 32-50GHz ,0dBm Output Power,SMA Female,2.4mm Female | Rev.1.1      |

典型曲线 Typical Performance Data:

Output Power vs Frequency



Harmonic Suppression vs Frequency



Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment