

# Passive Multiplier

## X2/4-15GHz /-6dBm Output Power

TLPM-1030-02N6-K

TURPM-103002N6K is a X2 passive multiplier. The multiplier has an input frequency of 5 to 15 GHz with a typical input power of 7 dBm and an output frequency of 10 to 30 GHz with a typical output power of -6 dBm. The input and output ports configuration are 2.92mm connector.

- Features:**
- Output Frequency: 10-30GHz
  - Output Power : -6dBm 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            | 10  |     | 30  | GHz      |
| 输出功率 Output Power                |     | -6  |     | dBm      |
| 输入频率 Input Frequency             | 5   |     | 15  | GHz      |
| 输入功率 Input Power                 | 5   | 7   | 15  | dBm      |
| 倍频次数 Multiply Factor             |     | 2   |     |          |
| 基波抑制 1st Harmonic Suppression    |     | -50 |     | dBc      |
| 3rd谐波抑制 3rd Harmonic Suppression |     | -58 |     | dBc      |
| 4th谐波抑制 4th Harmonic Suppression |     | -27 |     | dBc      |
| 基波隔离 1st Harmonic Isolation      |     | -35 |     | dBc      |
| 3rd谐波隔离 3rd Harmonic Isolation   |     | -46 |     | dBc      |
| 4th谐波隔离 4th Harmonic Isolation   |     | -15 |     | dBc      |

The value of harmonic isolation is compared to input power and harmonic suppression is compared to output power.

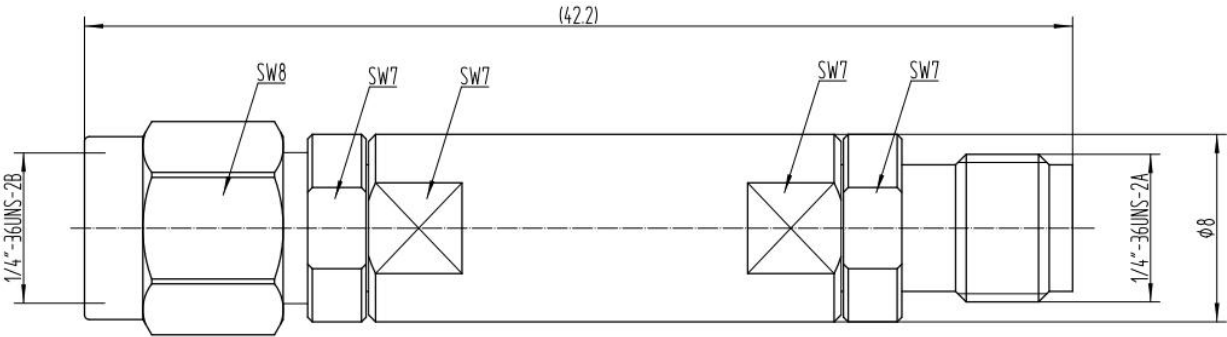
机械特性 Mechanical Specifications:

| 参数 Parameter          | 指标 Value      | 单位 Units |
|-----------------------|---------------|----------|
| 输出接口 Output Connector | 2.92mm Female |          |

绝对最大值 Absolute Maximum Ratings:

| 参数 Parameter                 | 指标 Value             |
|------------------------------|----------------------|
| 输入功率 RF Input Power          | +25 dBm              |
| ESD灵敏度 ESD sensitivity (HBm) | Class 0, passed 150V |

外形图 Outline Drawing: Unit:mm



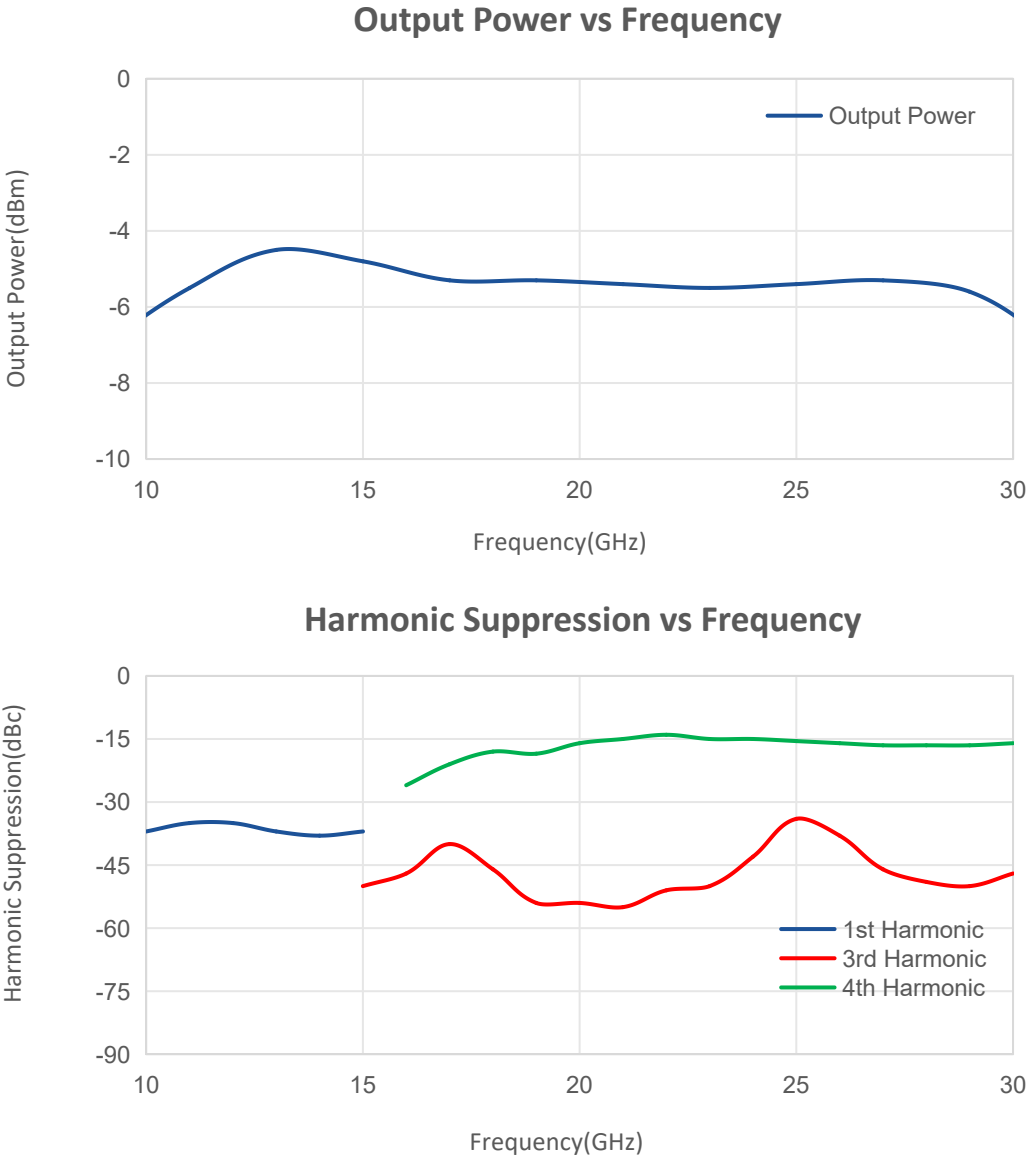
温度环境 Environmental Conditions:

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

典型曲线 Typical Performance Data:



Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.