泰莱微波 Talent Microwave

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# Coaxial Circulator

## SMA Female/5W

## Model: TLC8G12G-D

The TLC8G12G-D is a coaxial circulator designed to operate from 8GHz to 12GHz. The coaxial circulator offers minimum 19 dB isolation and 1.25:1 maximum VSWR. The input and output port configuration offers coax adapter structure with SMA female.

### Features:

- Operating Frequency 8 to 12GHz
- Low Insertion Loss
- Moderate Isolation
- Compact Configuration

### Applications:

- Port Isolation
- Module Integration

### 电气特性 Electrical Characteristics:

| 参数 Parameter | | Min | Typ | Max | 单位 Units |
|---|---|---|---|---|---|
| 频率范围 Frequency Range | | 8 | | 12 | GHz |
| 插损 Insertion Loss@25℃ | 1→2 | | | 0.9 | dB |
| | 2→3 | | | 0.45 | |
| 插损 Insertion Loss @-30~+70℃ | 1→2 | | | 1 | dB |
| | 2→3 | | | 0.5 | |
| 隔离度 Isolation@25℃ | 2→1 | 40 | | | dB |
| | 3→2 | 19 | | | |
| 隔离度 Isolation @-30~+70℃ | 2→1 | 36 | | | dB |
| | 3→2 | 18 | | | |
| 驻波 VSWR@25℃ | | | | 1.25 | :1 |
| 驻波 VSWR@-30~+70℃ | | | | 1.3 | :1 |
| 耐功率 Power Handling | | Average: 5W | | | W |
| 方向 Direction | | Clockwise: 1→2→3 | | | |
| 阻抗 Impedance | | 50 | | | Ohms |

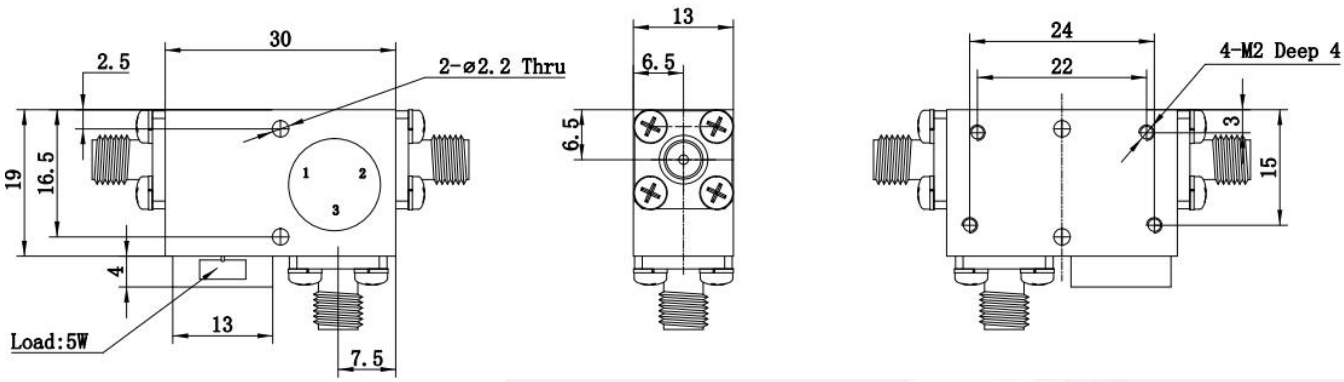
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## 环境和机械特性 Envrionmental And Physical Characteristics:

| 参数 Parameter | 指标 Value | 单位 Units |
|---|---|---|
| 操作温度 Operating Temerature | -30 To +70 | ℃ |
| 接口 Connectors | SMA Female | |
| 尺寸 Size | 14*18.5*10 | mm |

## 外形图 Outline Drawing:

Unit:mm; Tolerance:±0.1mm




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

## 订货信息 Ordering Information:

| 标准型号 Base Number | 描述 Description | 版本号 Revision |
|---|---|---|
| TLC8G12G-D | Coaxial Circulator, 8-12 GHz,<br>Insertion loss: 0.9dB, Port Isolation: 19dB | Rev.1.0 |