泰莱微波 Talent Microwave

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# Coax Dual-Directional Coupler

## 1-67GHz/10dB Coupling/1.85mm Female

## Model: TDC-10670-10-1.85

TDC-10670-10-1.85 is a coax dual-directional coupler that delivers a 10 dB nominal coupling level and 8 dB minimum directivity across the full frequency range from 1 to 67GHz. It is a four-port passive device that can couple a portion of the power from the main transmission line to the auxiliary line in a directional manner.

### Features:

- Output Frequency: 1-67GHz
- Max Power: 30W
- Stackable mechanical design
- Low Insertion Loss
- Moderate Directivity
- 50 Ohm Matched Input / Output

### Applications:

- Test Labs
- Instrumentations
- Sub-assemblies

### 电气特性 Electrical Characteristics:

| 参数 Parameter | Min | Typ | Max | 单位 Units |
|---|---|---|---|---|
| 工作频率 Frequency Range | 1 | | 67 | GHz |
| 插入损耗 Insertion Loss(Excl coupling) | | 4.5 | 4.9 | dB |
| 耦合度 Coupling | | 10±3.5 | | dB |
| 方向性 Directivity | 8 | 12 | | dB |
| 主线驻波 Main Line VSWR | | | 1.85 | :1 |
| 耐功率 Power Handling | | | 30 | W |
| 阻抗 Impedance | | 50 | | Ohms |

### 机械特性 Mechanical Specifications:

| 参数 Parameter | 指标 Value | 单位 Units |
|---|---|---|
| 操作温度 Operating Temperature | -45 to +85 | ℃ |
| RF接口 RF Connector | 1.85mm Female | |
| 尺寸 Size | 62.9*18*12.7 | mm |

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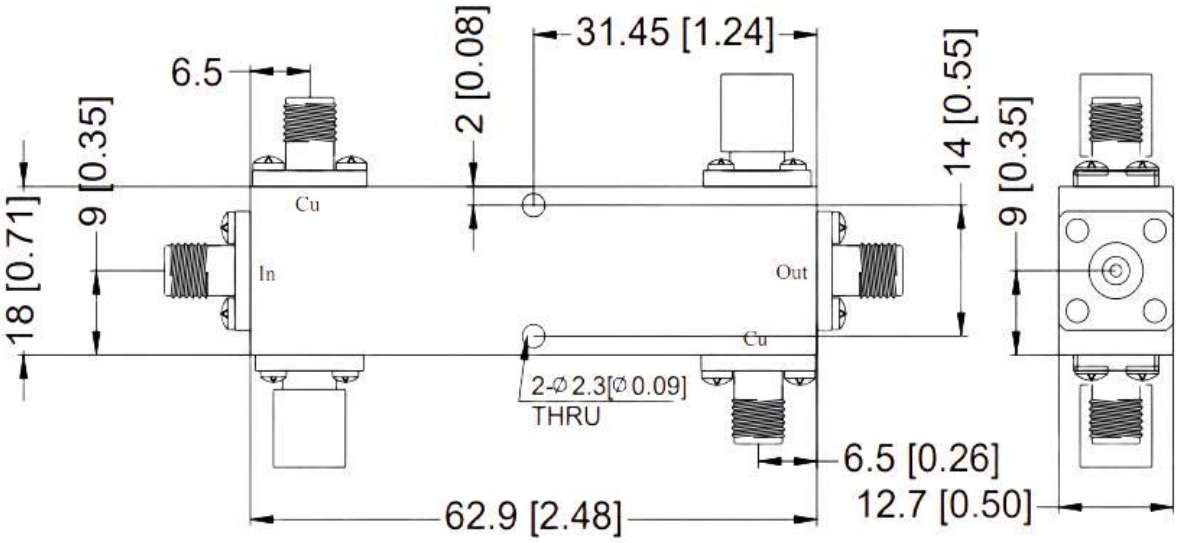
## 外形图 Outline Drawing:

Unit:mm




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 |
|---|---|---|
| TDC-10670-10-1.85 | Coax Dual-Directional Coupler<br>1-67GHz, Coulping:10dB, 1.85mm Female | Rev.1.0 |