泰莱微波 Talent Microwave

Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

# High Power Dual-Directional Coupler

## 2-3GHz/50dB Coupling/N Female

## Model: TDC-2030-50N-300W

TDC-2030-50N-300W is a high power dual-directional coupler that delivers a 50 dB nominal coupling level and 15 dB minimum directivity across the full frequency range from 2 to 3GHz. 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: 2-3GHz
- Max Power: 300W
- 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 | 2 | | 3 | GHz |
| 插入损耗 Insertion Loss(Excl coupling) | | | 0.4 | dB |
| 耦合度 Coupling | | 50±2 | | dB |
| 方向性 Directivity | 15 | | | dB |
| 主线驻波 Main Line VSWR | | | 1.3 | :1 |
| 耐功率 Power Handling | | | 300 | W |
| 阻抗 Impedance | | 50 | | Ohms |

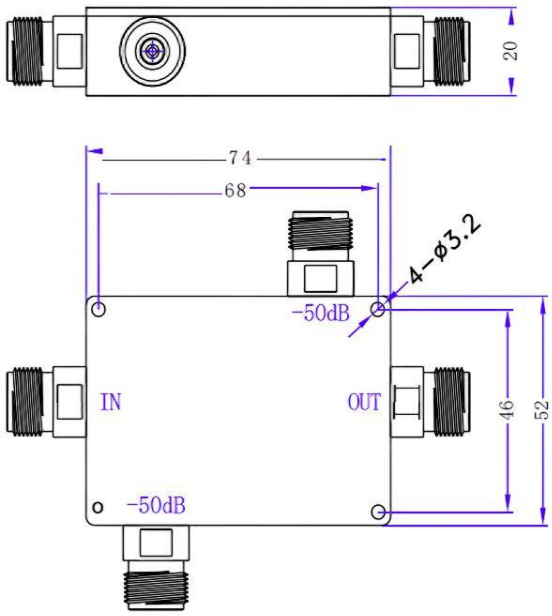
### 机械特性 Mechanical Specifications:

| 参数 Parameter | 指标 Value | 单位 Units |
|---|---|---|
| 操作温度 Operating Temperature | -30 to +70 | ℃ |
| RF接口 RF Connector | N Female | |
| 耦合接口 Coupling Connector | N Female | |
| 尺寸 Size | 74*52*20 | 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-2030-50N-300W | High Power Dual-Directional Coupler<br>2-3GHz, Coulping:50dB, N Female | Rev.1.0 |