泰莱微波
Talent Microwave

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# Coax Directional Coupler

## 1-67GHz/20dB Coupling/1.85mm Female

## Model: TC-10670-20-1.85

TC-10670-20-1.85 is a coaxial directional coupler that delivers a 20 dB nominal coupling level and 8 dB minimum directivity across the full frequency range from 1 to 67 GHz. It is a three-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
- Coupling: 20dB Typ
- Stackable mechanical design
- Low Insertion Loss
- Moderate Directivity
- 50 Ohm Matched Input / Output

### Applications:

- Test Labs
- Instrumentations
- Sub-assemblies

### Electrical Characteristics:

| Parameter | | Min | Typ | Max | Units |
|---|---|---|---|---|---|
| Frequency Range | | 1 | | 67 | GHz |
| Insertion Loss (Excl Coupling) | | | | 2.5 | dB |
| Coupling | @1G-18G | | 20±3 | | dB |
| | @18G-67G | | 20±2.3 | | dB |
| Directivity | | 8 | 10 | | dB |
| Power Handling | | | | 30 | W |
| VSWR | | | | 1.7 | :1 |
| Impedance | | | 50 | | Ohms |

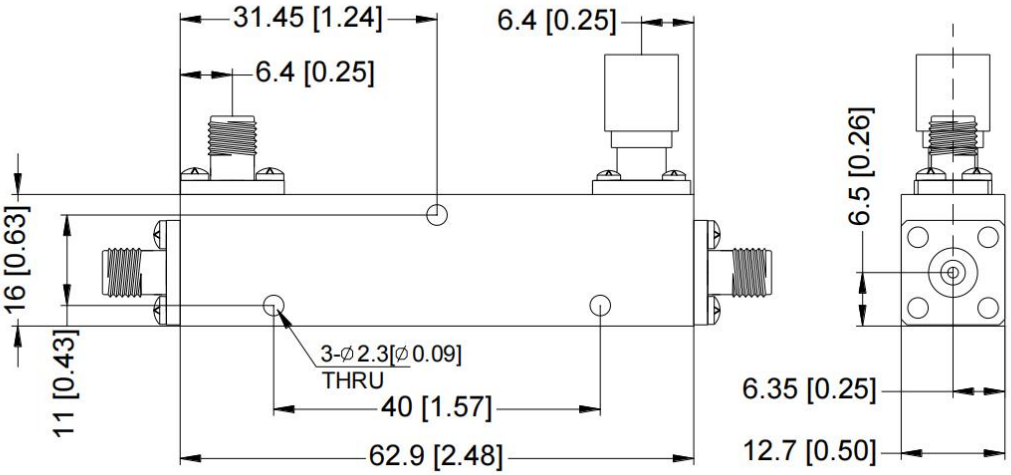
### Mechanical Specifications:

| Parameter | Value | Units |
|---|---|---|
| Operating Temperature | -55-+85 | ℃ |
| Input/Output Connector | 1.85mm Female/1.85mm Female | |
| Size | 62.9*16*12.7 | mm |

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## Outline Drawing:

Unit:mm



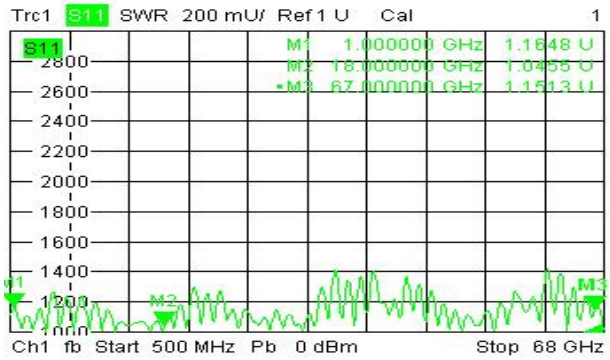

ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

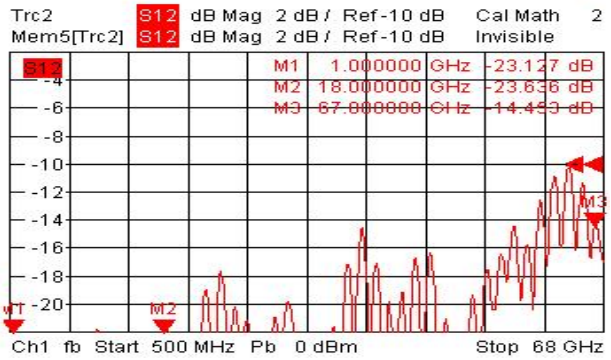
## Ordering Information:

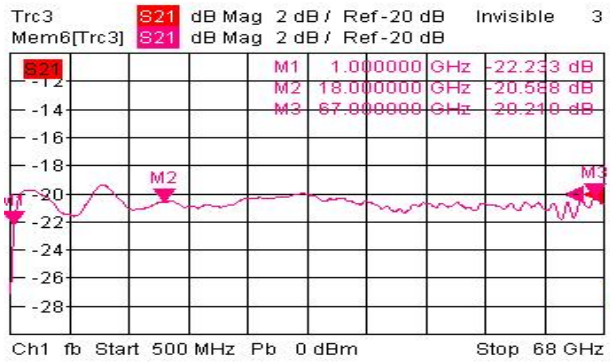
| Base Number | Description | Revision |
|---|---|---|
| TC-10670-20-1.85 | Coaxial Directional Coupler<br>1-67GHz, Coulping:20dB, 1.85mm Female | Rev.1.0 |

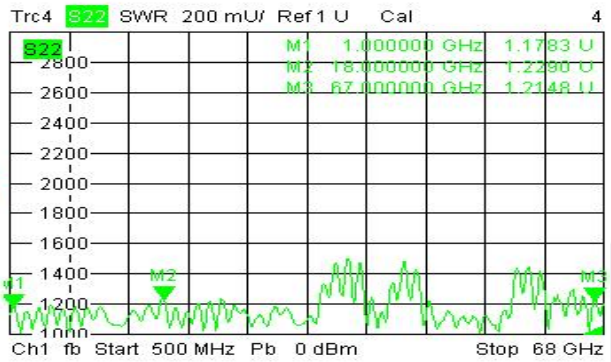
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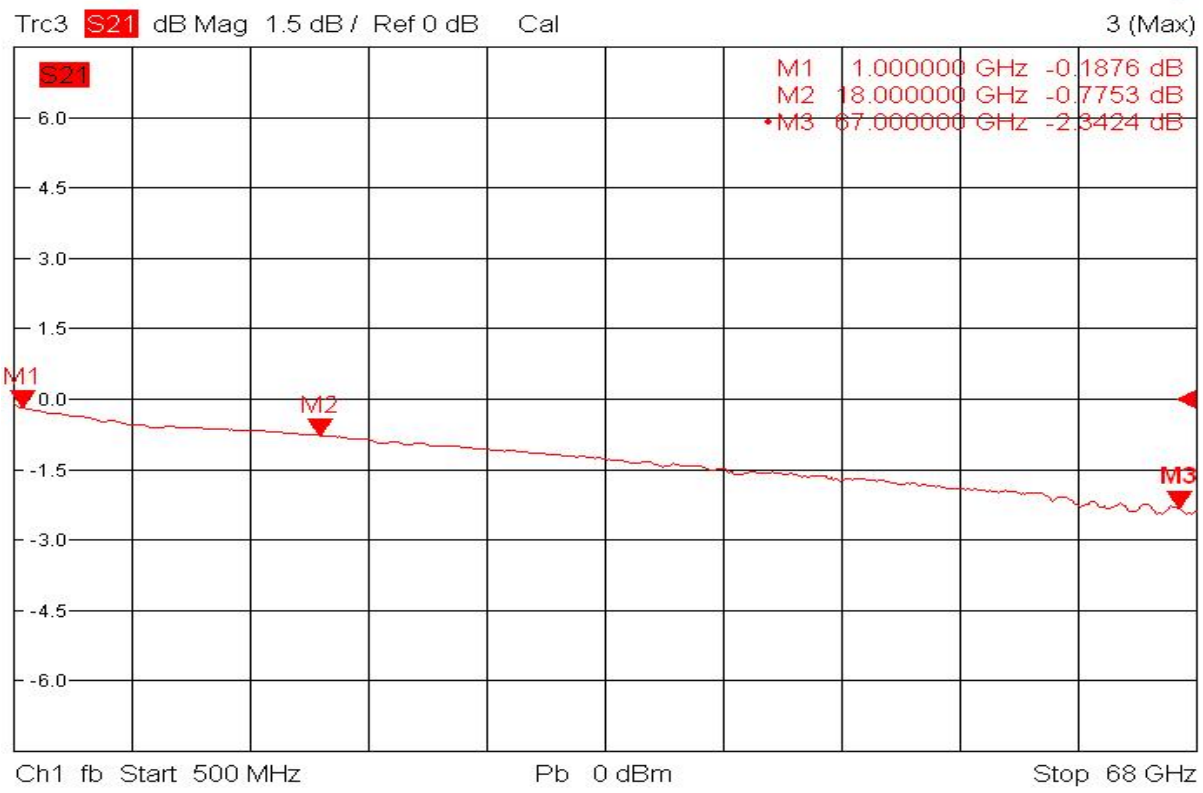
## Typical Performance Data:




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.