Suzhou Talent Microwave,Inc
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# Coax Directional Coupler

## 0.5-26.5GHz/10dB Coupling/SMA Female

## Model: TC-05265-10S

TC-05265-10S is a coaxial directional coupler that delivers a 10 dB nominal coupling level and 10 dB minimum directivity across the full frequency range from 0.5 to 26.5 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: 0.5-26.5GHz
- Coupling: 10dB 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 | 0.5 | | 26.5 | GHz |
| Insertion Loss (Excl Coupling) | | 1.8 | 2.8 | dB |
| Coupling | | 10±1.6 | | dB |
| Directivity | 10 | 12 | | dB |
| Power Handling | | | 30 | W |
| VSWR | | | 1.7 | :1 |
| Impedance | | 50 | | Ohms |

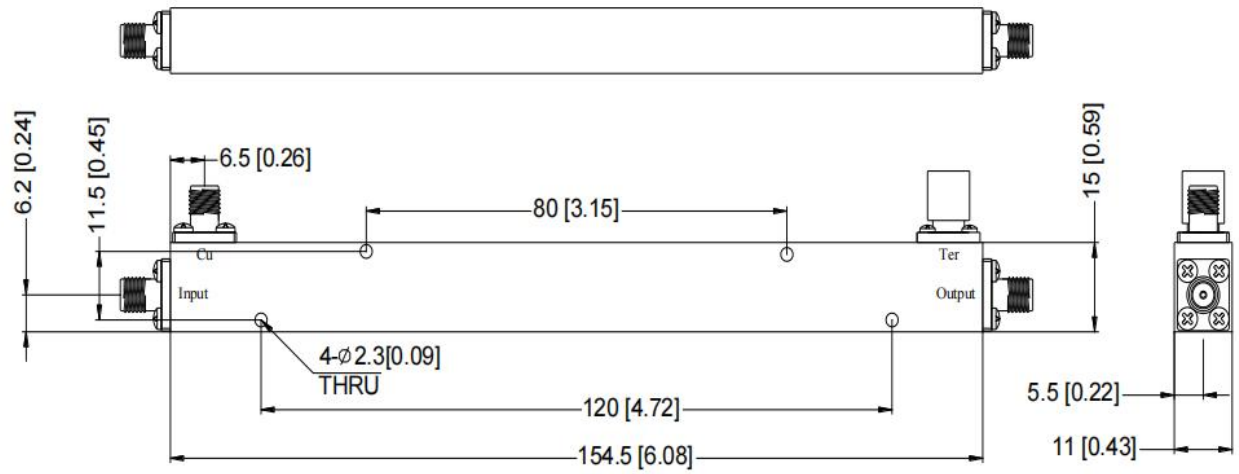
### Mechanical Specifications:

| Parameter | Value | Units |
|---|---|---|
| Operating Temperature | -55-+85 | ℃ |
| Input/Output Connector | SMA Female/SMA Female | |
| Size | 154.5*11.5*11 | mm |

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## Outline Drawing:

Unit:mm



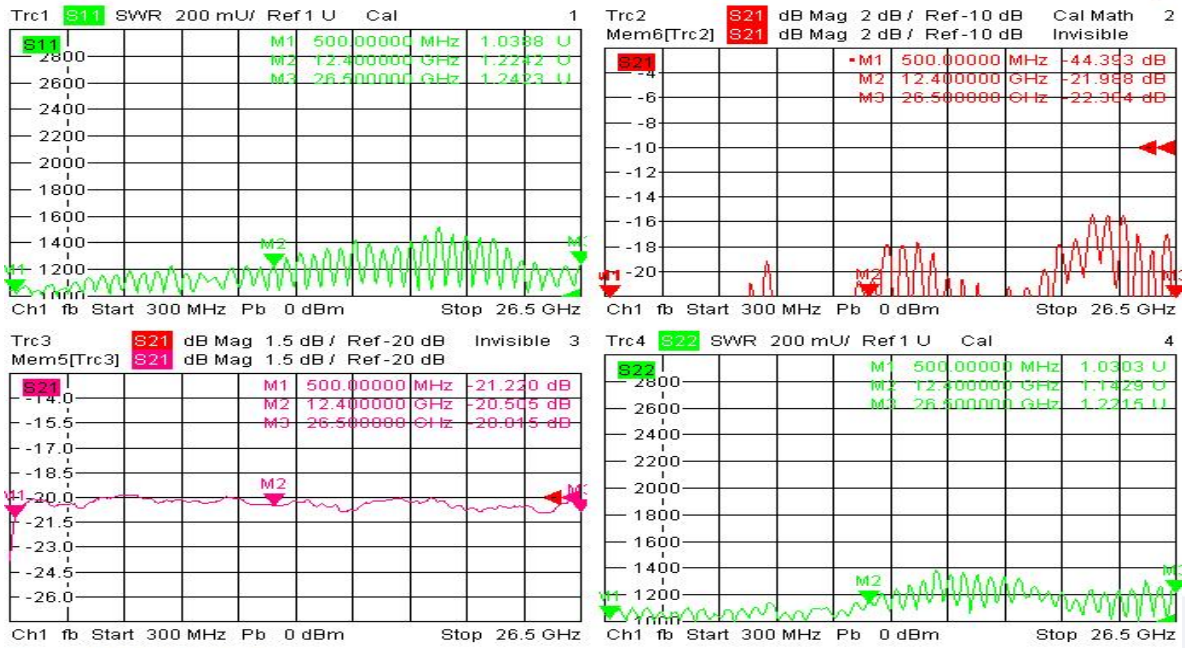

ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

## Ordering Information:

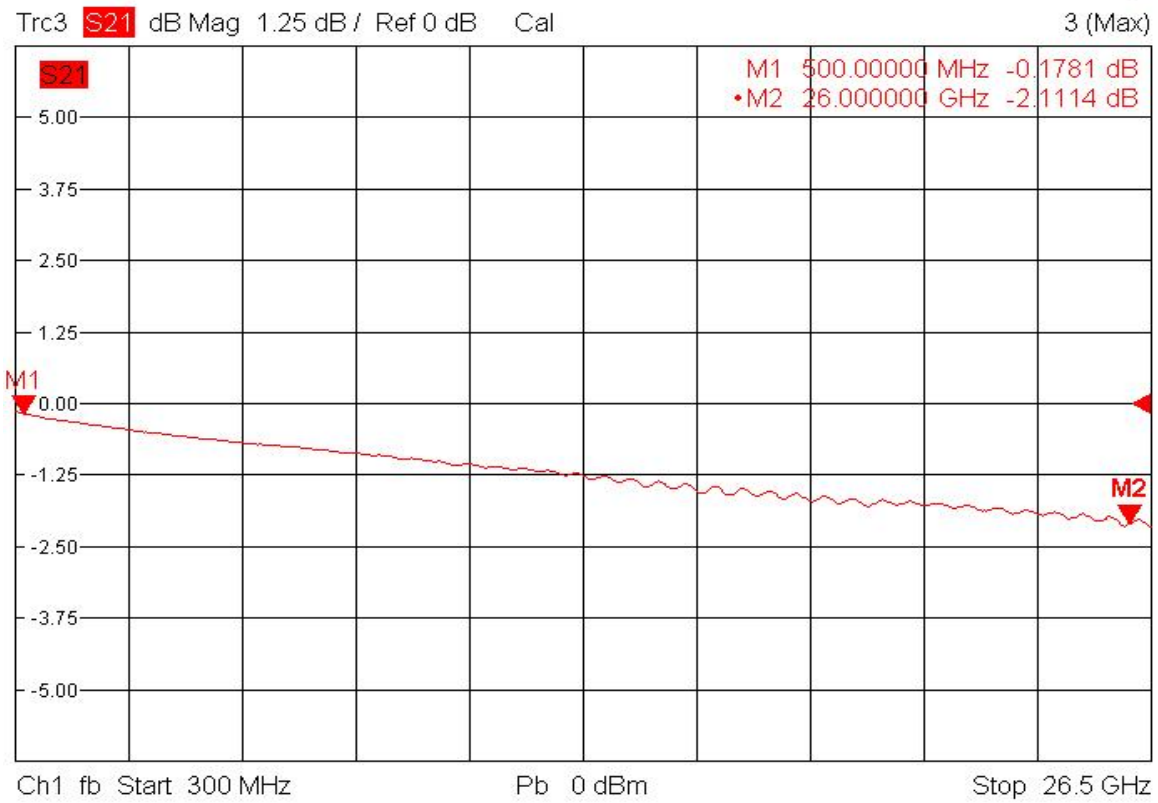
| Base Number | Description | Revision |
|---|---|---|
| TC-05265-10S | Coaxial Directional Coupler<br>0.5-26.5GHz, Coulping:10dB, SMA Female | Rev.1.0 |

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## Typical Performance Data:




**11/12/2018, 8:19 PM**




**11/12/2018, 12:30 PM**

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.