Suzhou Talent Microwave,Inc
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Coax Directional Coupler

18-50GHz/20dB Coupling/2.4mm Female

Model: TC-180500-20-2.4

TC-180500-20-2.4 is a coaxial directional coupler that delivers a 20 dB nominal coupling level and 10 dB minimum directivity across the full frequency range from 18 to 50 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:18-50GHz
- 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	18		50	GHz
Insertion Loss (Excl Coupling)		2.0	2.3	dB
Coupling		20±1.2		dB
Directivity	10	12		dB
Power Handling			20	W
VSWR			1.9	:1
Impedance		50		Ohms

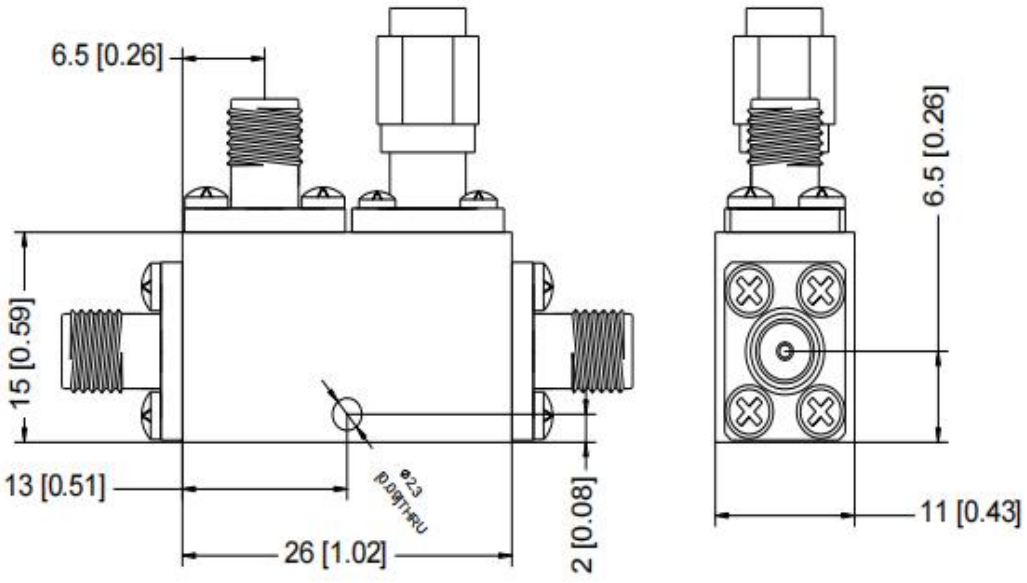
Mechanical Specifications:

Parameter	Value	Units
Operating Temperature	-55-+85	℃
Input/Output Connector	2.4mm Female/2.4mm Female	
Size	26*13*11	mm

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Outline Drawing:

Unit:mm



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

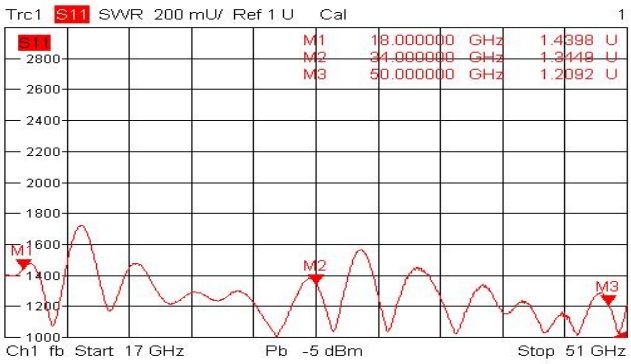
Ordering Information:

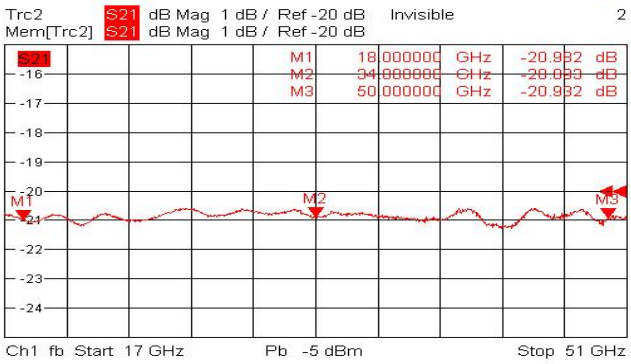
Base Number	Description	Revision
TC-180500-20-2.4	Coaxial Directional Coupler 18-50GHz, Coulping:20dB, 2.4mm Female	Rev.1.0

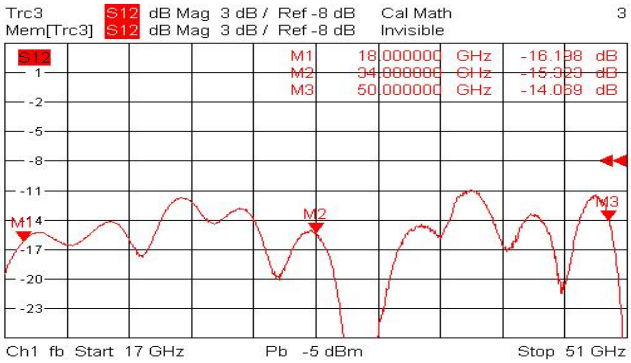
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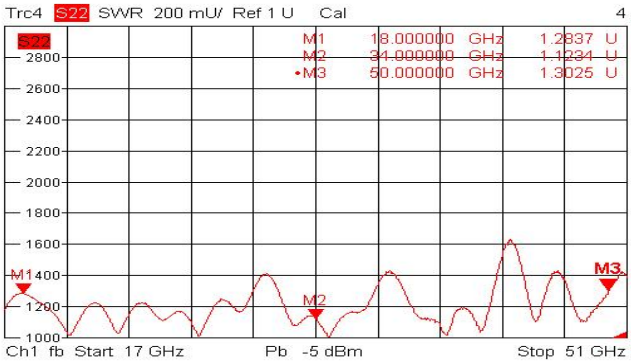
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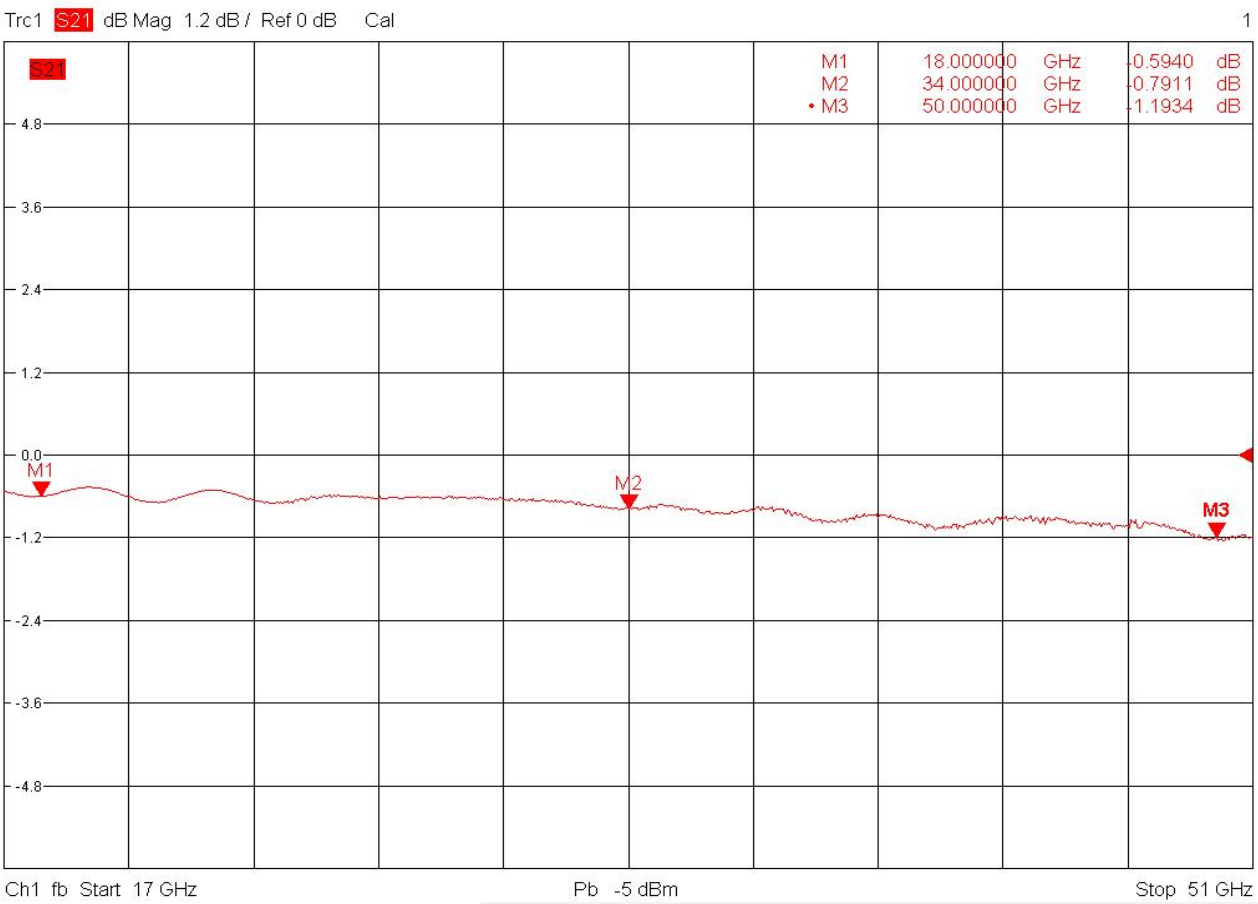
Typical Performance Data:











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.