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

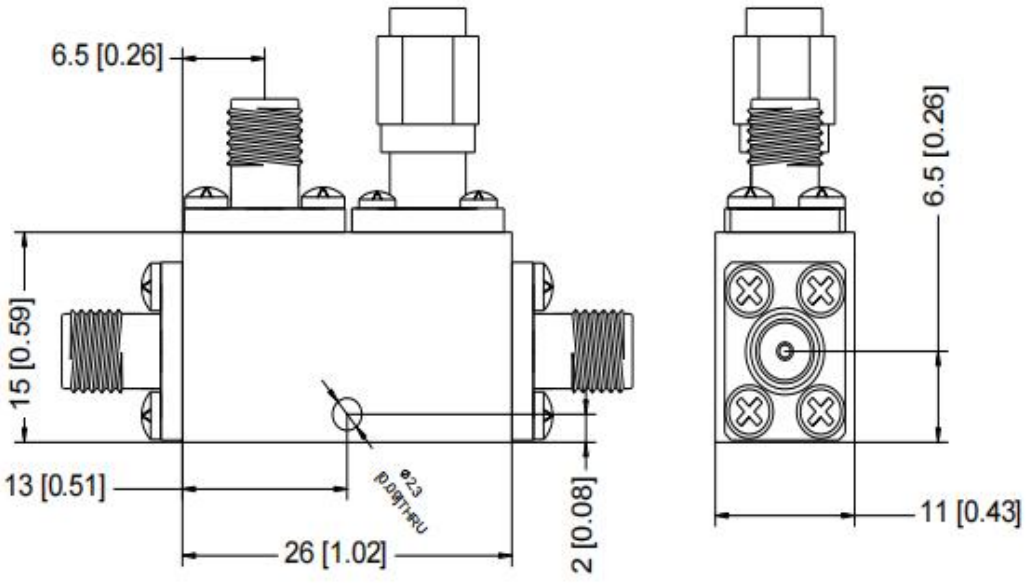
Mechanical Specifications:

Parameter	Value	Units
Input/Output Connector	2.4mm Female/2.4mm Female	
Size	26*13*11	mm

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Outline Drawing:

Unit:mm; Tolerance:±0.1mm



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

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Temperature Range	-45		+85	℃
Relative humidity	100% RH at 35c, 95%RH at 40℃			%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

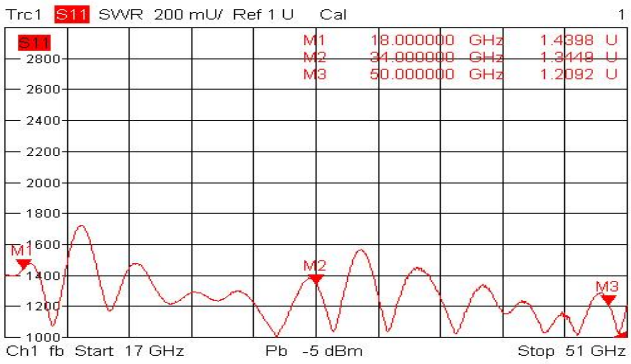
Ordering Information:

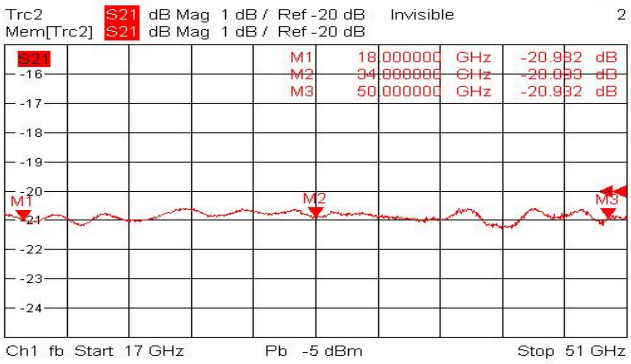
Base Number	Description	Revision
TC-180500-20-2.4	Coaxial Directional Coupler 18-50GHz, Coulping:20dB, 2.4mm Female	Rev.1.0

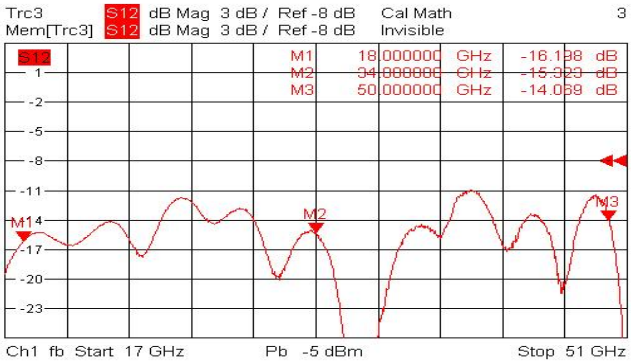
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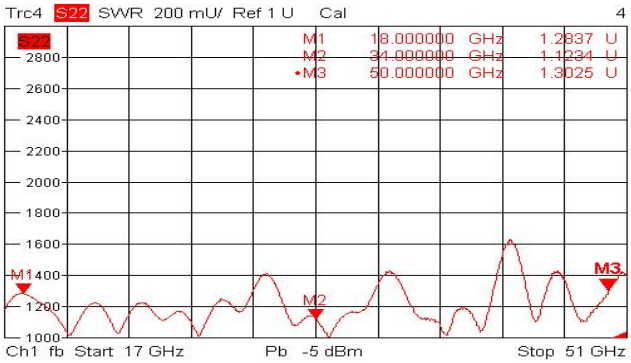
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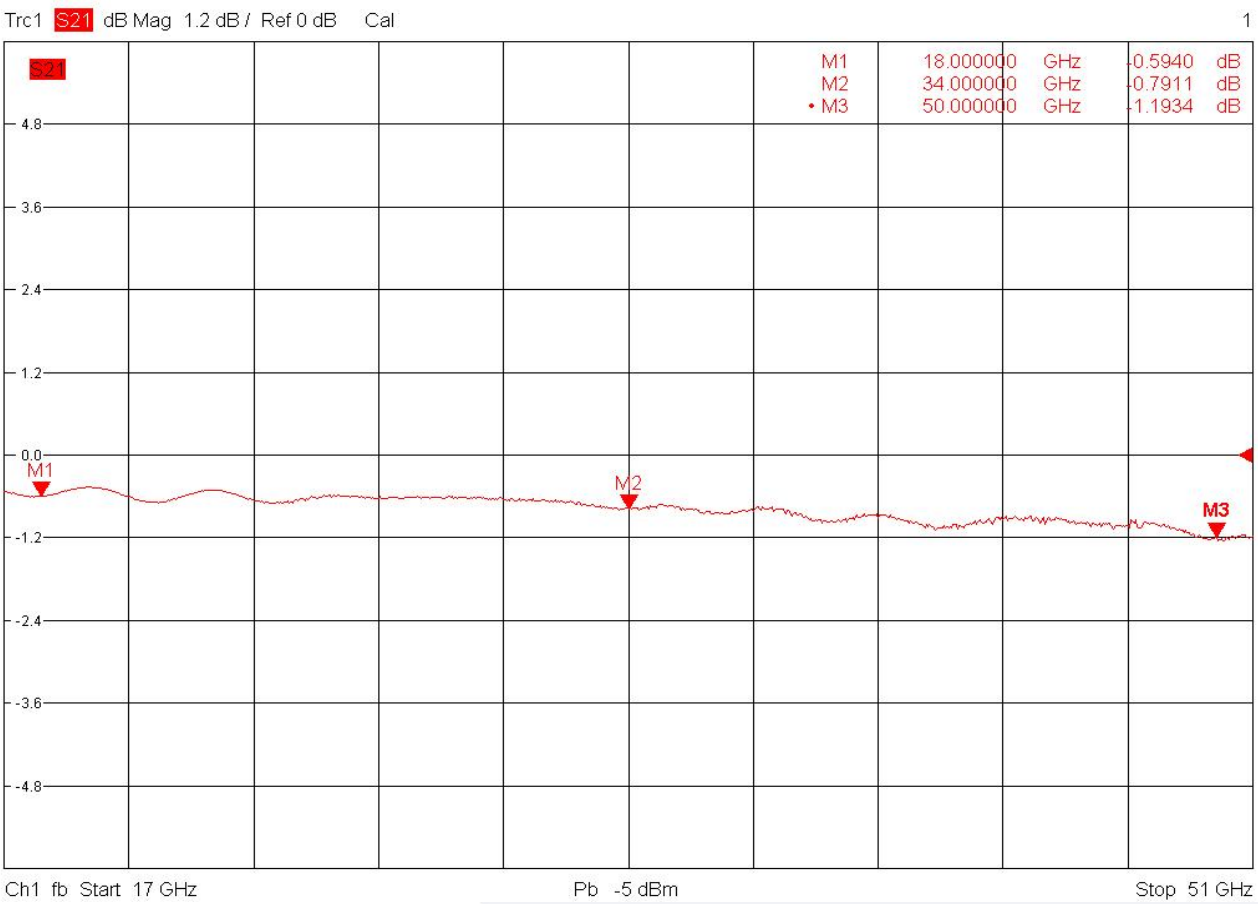
Typical Performance Data:











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.