泰莱微波 Talent Microwave

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

Coax Directional Coupler

1-18GHz/10dB Coupling/SMA Female

Model: TC-10180-10S

TC-10180-10S is a coaxial directional coupler that delivers a 10 dB nominal coupling level and 12 dB minimum directivity across the full frequency range from 1 to 18 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: 1-18GHz
- Coupling: 10dB Typ
- 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	1		18	GHz
插入损耗 Insertion Loss (不含耦合插损 Excl Coupling)		0.8	0.9	dB
耦合度 Coupling		10±1		dB
方向性 Directivity	12	15		dB
耐功率 Power Handling			50	W
驻波 VSWR			1.5	:1
阻抗 Impedance		50		Ohms

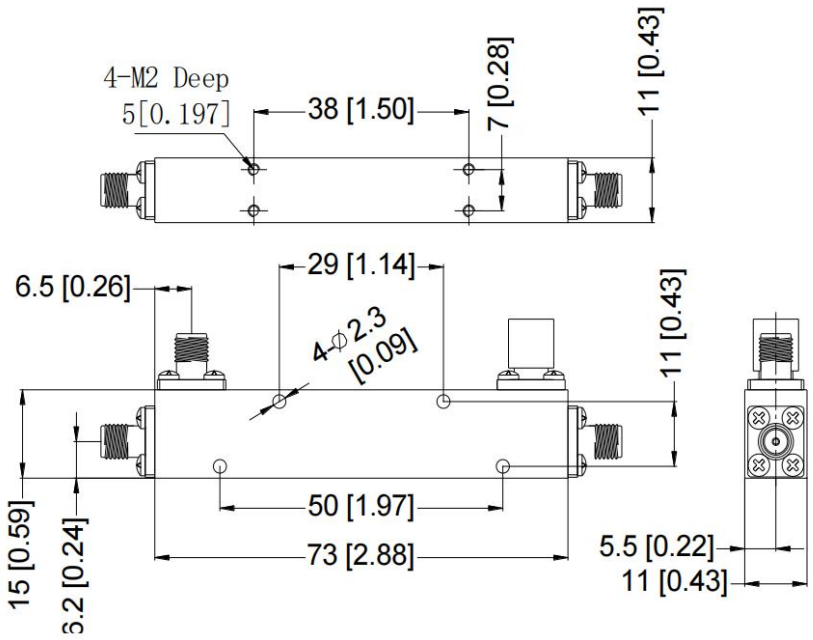
机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input/Output Connector	SMA Female/SMA Female	
尺寸 Size	73*15*11	mm

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外形图 Outline Drawing:

Unit:mm; Tolerance:±0.1mm



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

温度环境 Environmental Conditions:

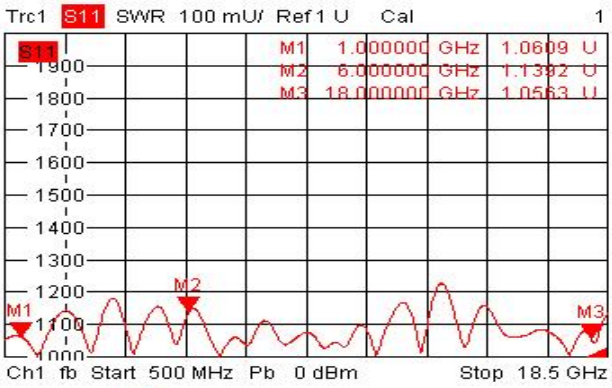
参数 Parameter	Min	Typ	Max	单位 Units
温度范围 Temperature Range	-45		+85	℃
相对湿度 Relative humidity	100% RH at 35c, 95%RH at 40℃			%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both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

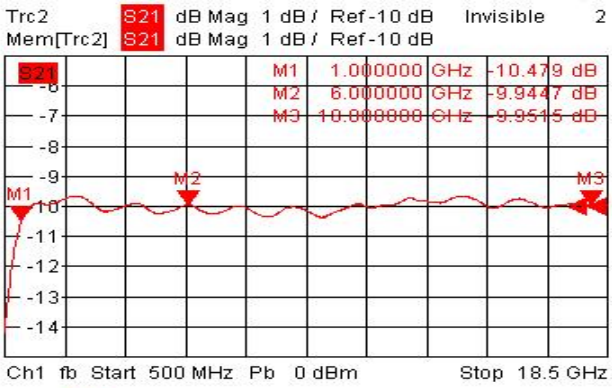
订货信息 Ordering Information:

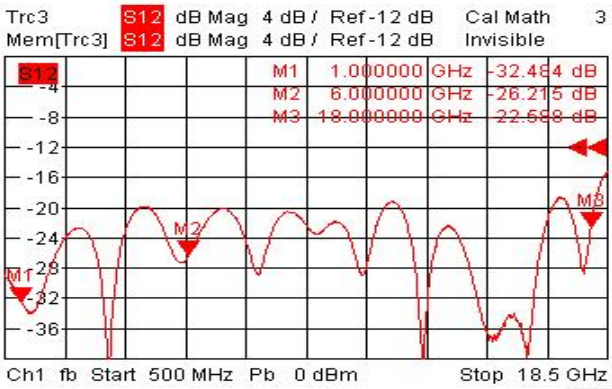
标准型号 Base Number	描述 Description	版本号 Revision
TC-10180-10S	Coaxial Directional Coupler 1-18GHz, Coulping:10dB, SMA Female	Rev.1.0

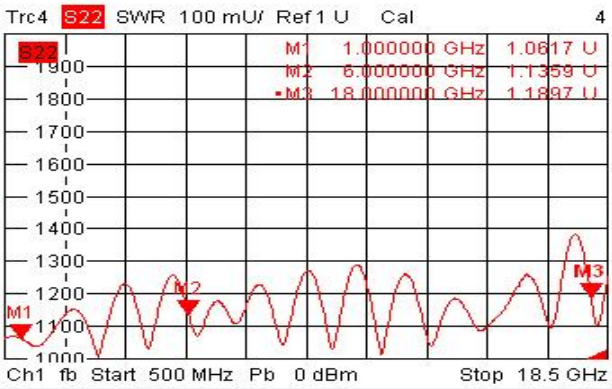
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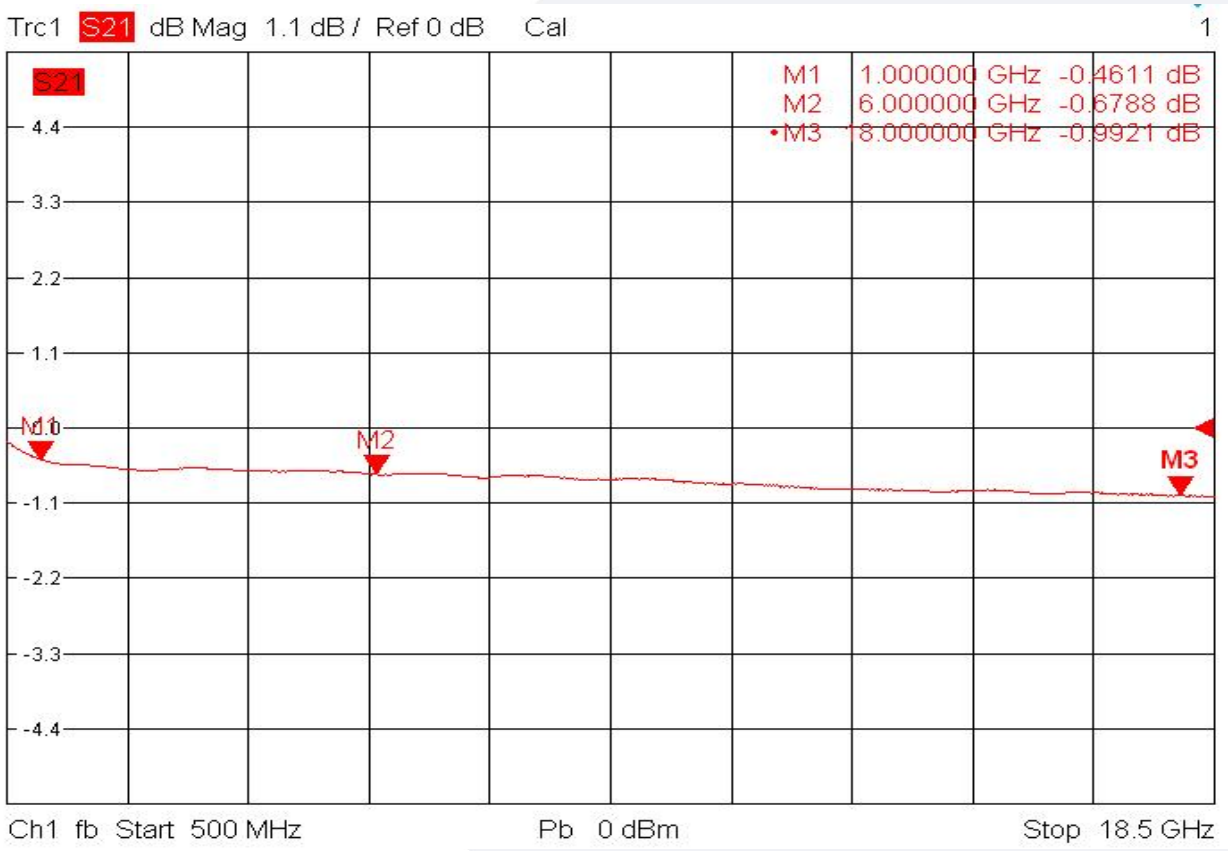
典型曲线 Typical Performance Data:











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.