Suzhou Talent Microwave,Inc
sales@talentmw.com
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Coax Directional Coupler

8-12GHz/20dB Coupling/SMA Female

Model: TC-80120-20S

TC-80120-20S is a coaxial directional coupler that delivers a 20 dB nominal coupling level and 14 dB minimum directivity across the full frequency range from 8 to 12 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:8-12GHz
- 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	8		12	GHz
Insertion Loss (Excl Coupling)		0.4	0.5	dB
Coupling		20±1		dB
Directivity	14	15		dB
Power Handling			50	W
VSWR			1.4	:1
Impedance		50		Ohms

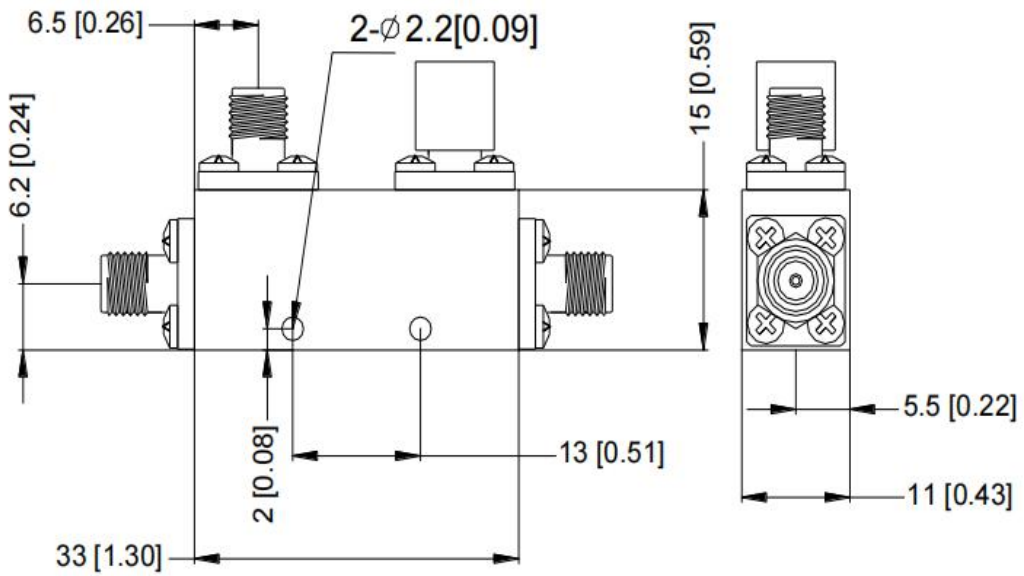
Mechanical Specifications:

Parameter	Value	Units
Operating Temperature	-55-+85	℃
Input/Output Connector	SMA Female/SMA Female	
Size	33*15*14	mm

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Outline Drawing:

Unit:mm



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

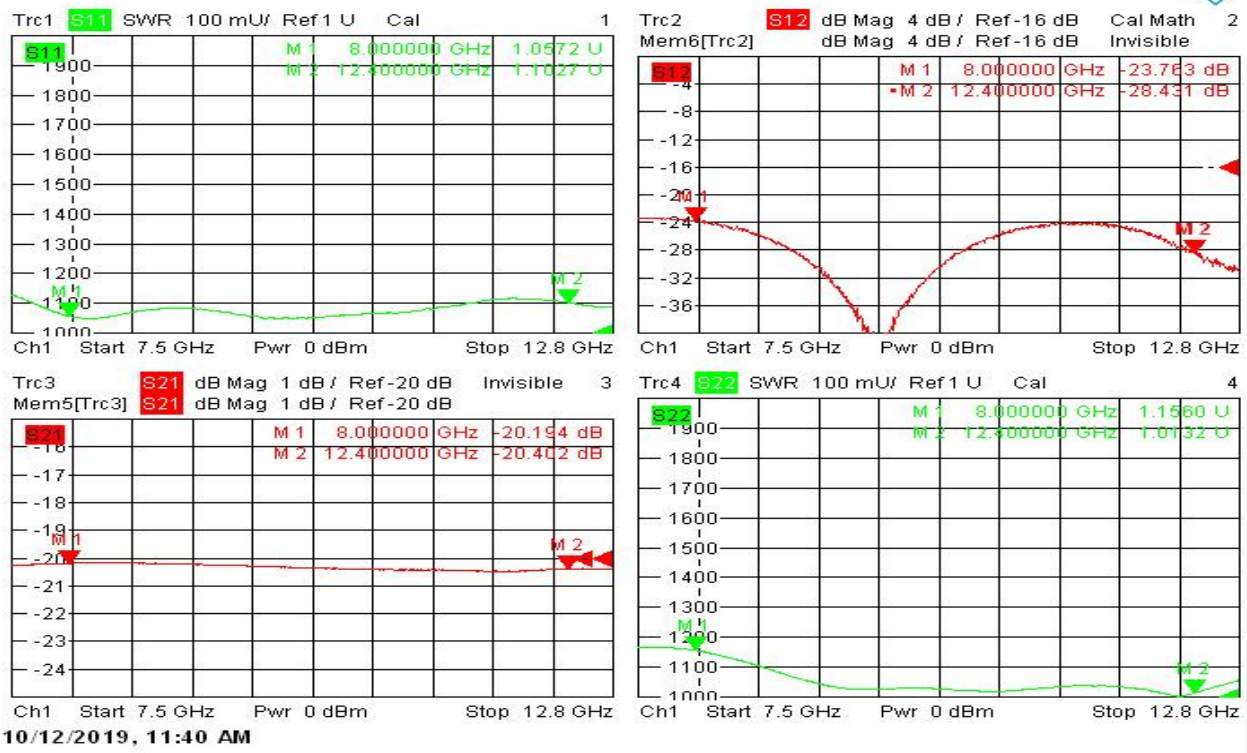
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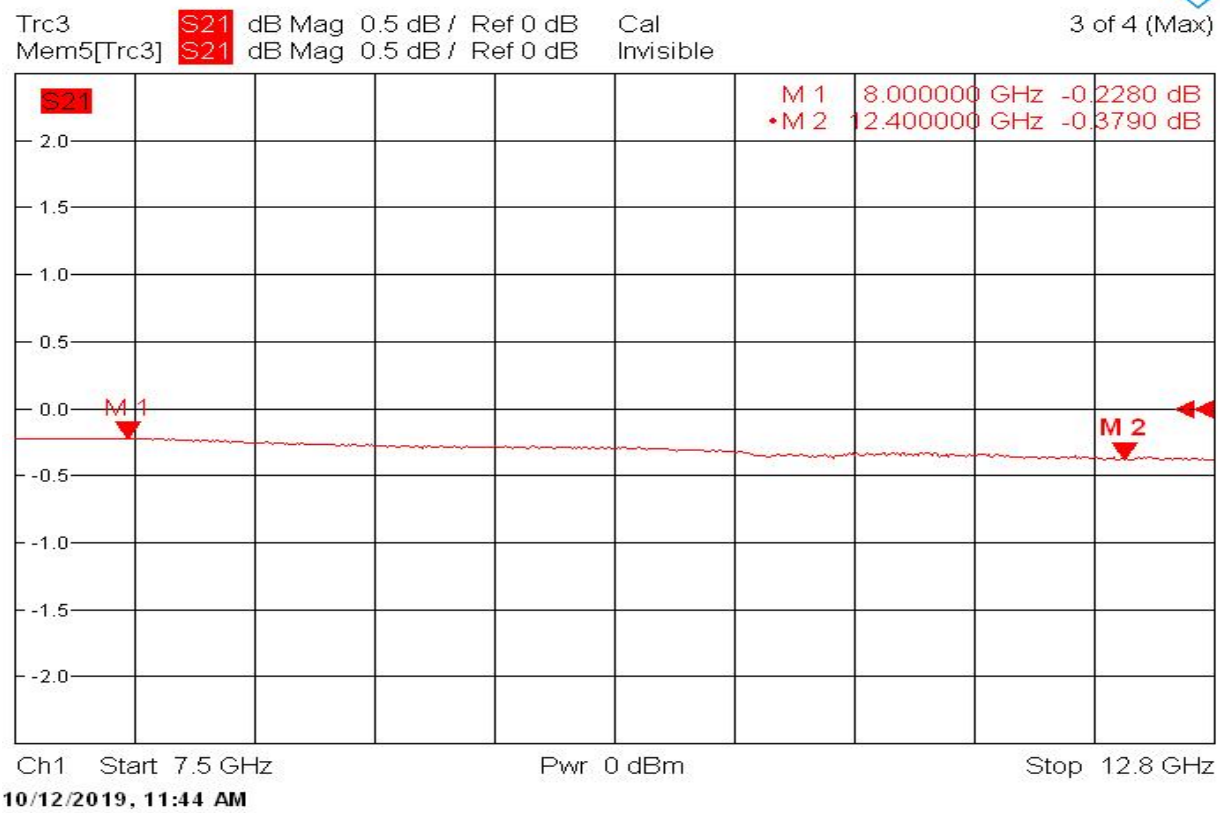
Base Number	Description	Revision
TC-80120-20S	Coaxial Directional Coupler 8-12GHz, Coulping:20dB, SMA Female	Rev.1.0

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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.