

0.5-40GHz Broadband Directional Coupler

Product Overview

2022-2-28



AT Microwave offers high performance and broadband directional couplers from DC-67GHz, with SMA, 2.92mm, 2,4mm and 1.85mm connectors.

Based on our excellent design work, precise machine tolerance and outstanding quality plating, we can provide band pass filter with low insertion loss, good return loss and high rejection at the same time.

More information, please visit www.atmicrowave.com

Advantages

- ✓ Broadband Performance
- ✓ Excellent Coupling Accuracy
- ✓ High Directivity
- ✓ Good Return Loss

Application

- ✓ 5G Communication
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System

Key Features

Parameter	Min	Typical	Max
Frequency		0.5-40GHz	
Mean Coupling		20 dB	
Coupling Accuracy		+/-1.0dB	+/-2dB
Main Line Extra Insertion Loss		-2.0dB	-3.0dB
Main Line Return Loss		-20dB	-10dB
Coupling Line Return Loss		-20dB	-10dB
Isolation		30dB	
CW Power			20W
Peak Power			3kW
Spec Temp		25C	





AT-C20-0R540

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Mechanical Information

Item	Description
Input Port	2.92mm Female
Output Port	2.92mm Female
Case Material	Aluminum
Finish	Painted
Weight	80g
Size:	See outline

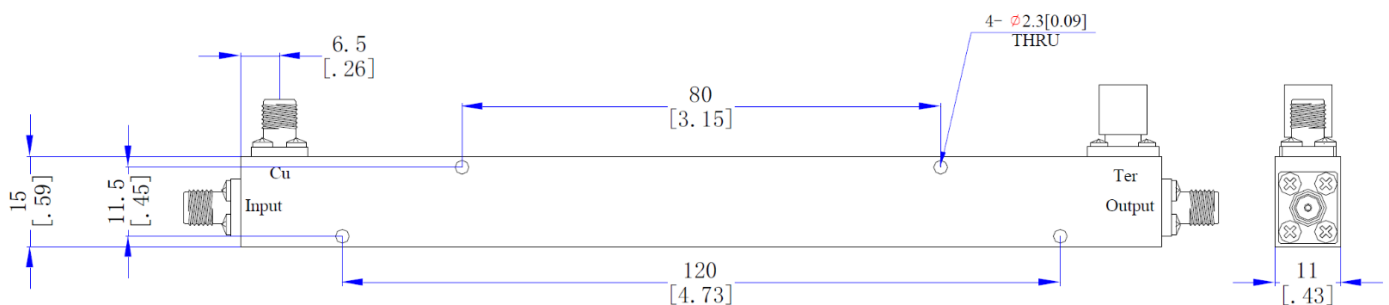
Absolute Maximum Ratings Table

Parameter	Value
RF Input Power CW	20W
Operating Temperature	-40 to + 85C
Storage Temperature	-65 to +125C

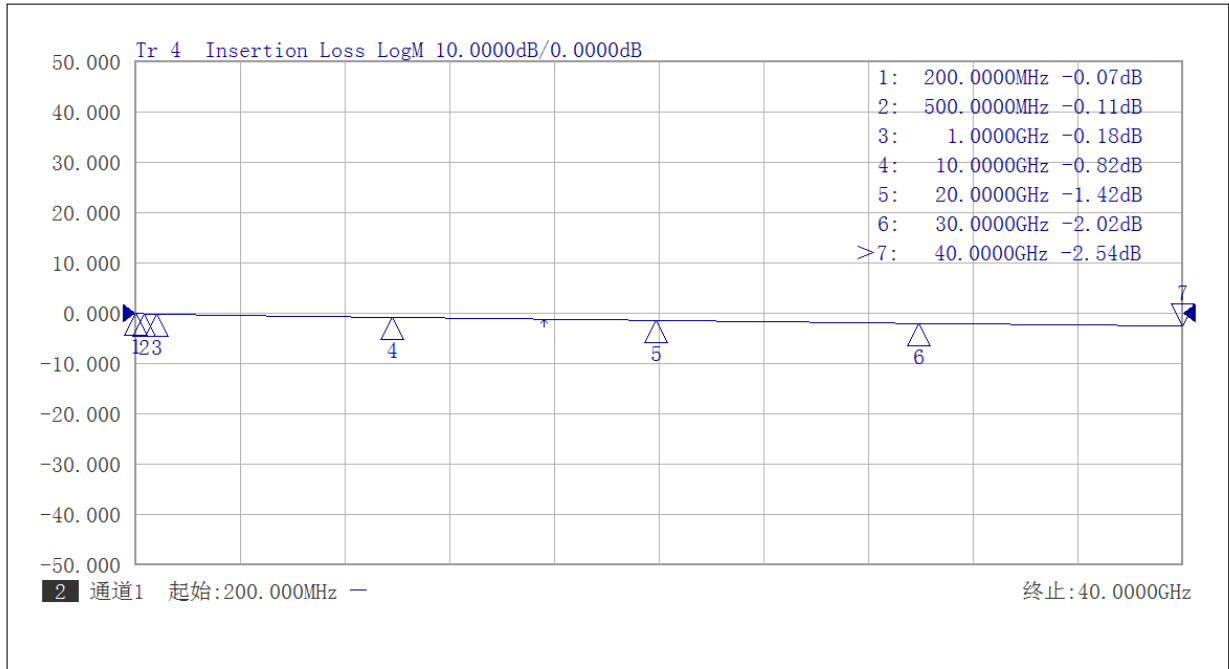
Notes:

1. Datasheet may be changed according to update of MMIC, Raw materials , process, and so on.
2. This data is only for reference, not for guaranteed specifications.
3. Please contact AT Microwave team to make sure you have the most current data.

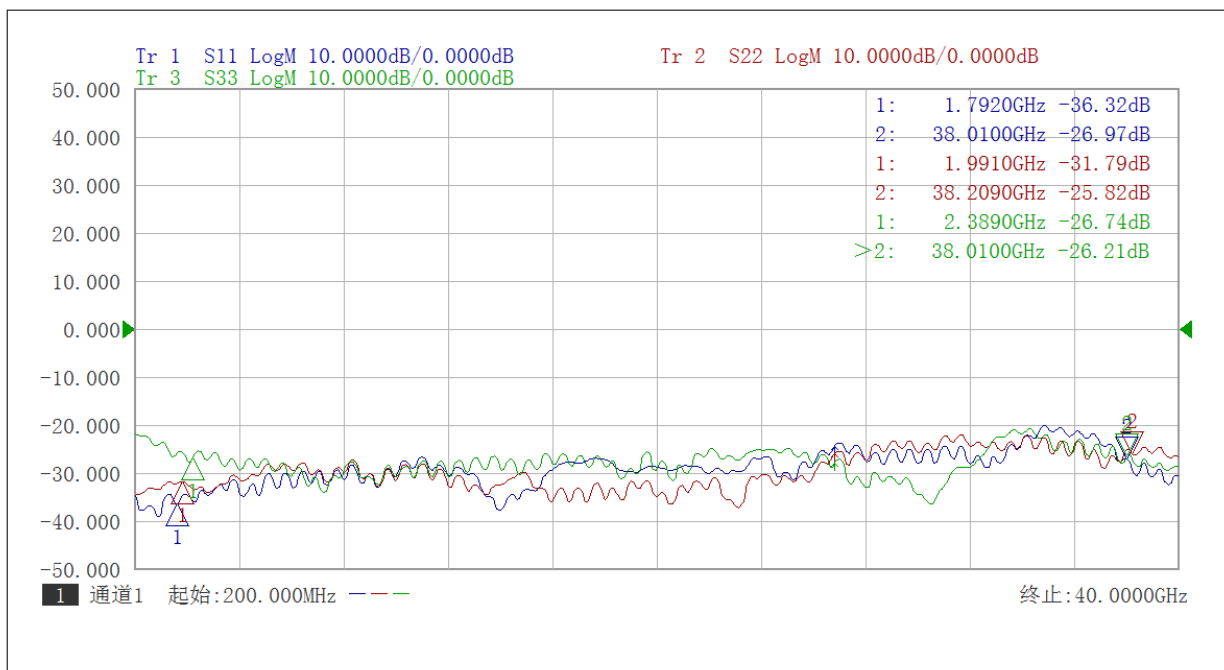
Dimension: (unit in mm)



Test Data

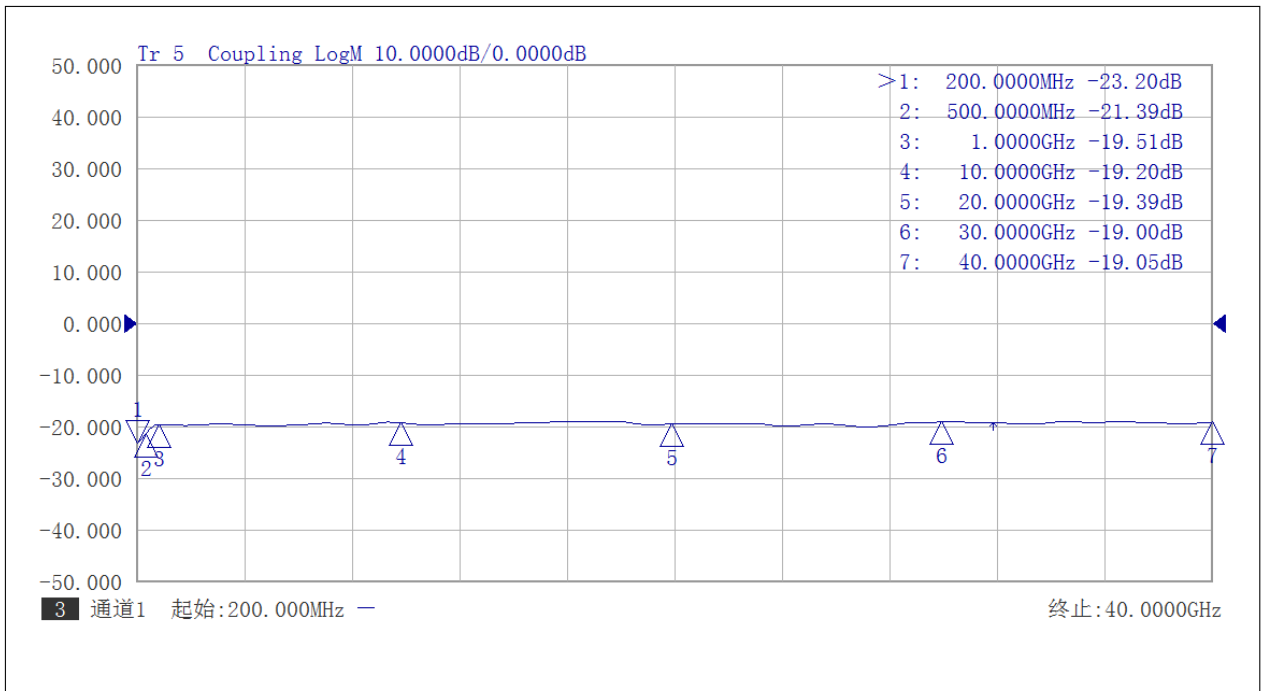


Insertion Loss vs Frequency



Return Loss vs Frequency





Coupling vs Frequency



Isolation vs Frequency

