30kHz-110GHz DC Block

2025-11-25

Product Overview

AT-DC-10M10F is a broadband DC Block from 30kHz to 110GHz. The insertion loss is -1.5 dB with -10dB return loss performance

The RF1 and RF2 are 1.0mm Female and Male respectively, other connector is available according to request. Input and Output port can be changed according to test need.

More information, please visit www.atmicrowave.com

Advantages

- ✓ Frequency: 30kHz-110GHz
- ✓ Insertion Loss: -1.5dB
- ✓ Max Voltage: 6.5V
- ✓ Power Handling: +20dBm

Application

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

Key Features

Parameter	Min	Typical	Max
Frequency		30kHz-110GHz	
Insertion Loss		-1.5dB	-3.0dB
Return Loss	-5	-10dB	
Max Voltage			+6.5V
Power Handling			+20dBm
Spec Temp		25C	

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Mechanical Information

Item	Description
RF1 Port	1.0mm Female
RF2 Port	1.0mm Male
Case Material	Copper
Finish	Gold Plated
Weight	40g
Size:	See outline

Absolute Maximum Ratings Table

Parameter	Value
Voltage	+6.5V
RF Power	+20 dBm
Operating Temperature	-40 to +85C
Storage Temperature	-55 to +125C

Ordering

Part Number	Description
AT-DC-10M10F	In default, RF1 1.0mm Female, RF2 1.0mm Male
AT-DC-10F10F	RF1 1.0mm Female, RF2 1.0mm Female
AT-DC-10M10M	RF1 1.0mm Male, RF2 1.0mm Male

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.

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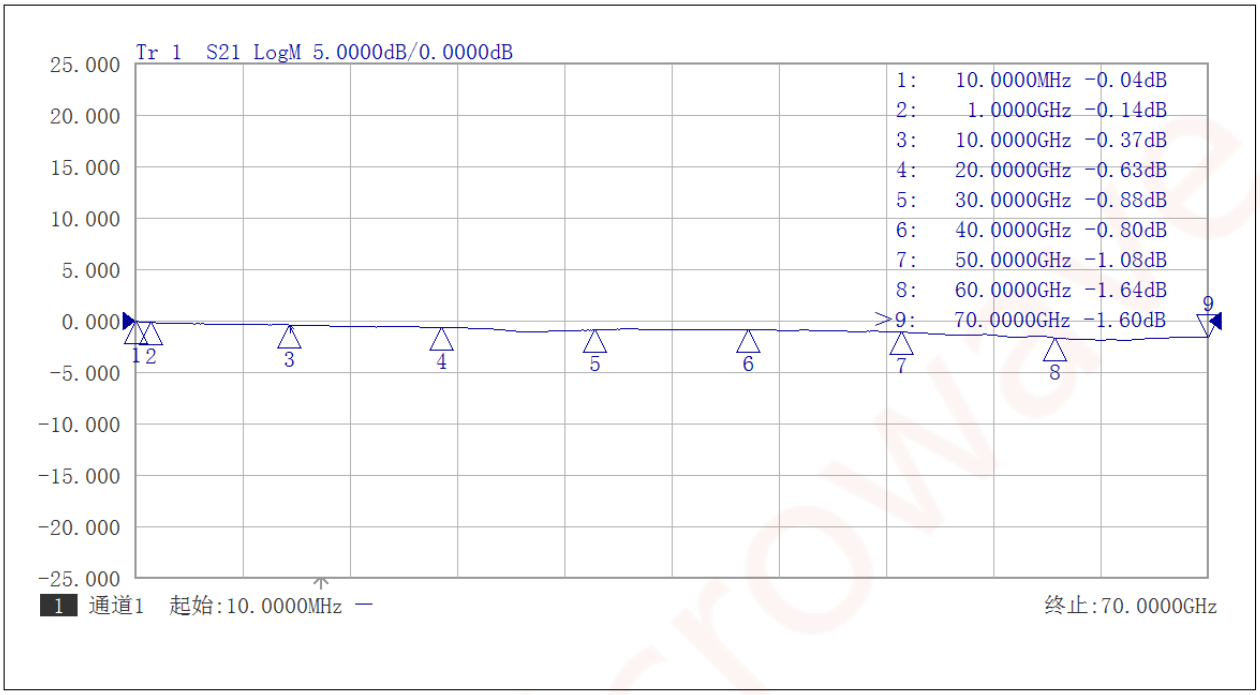
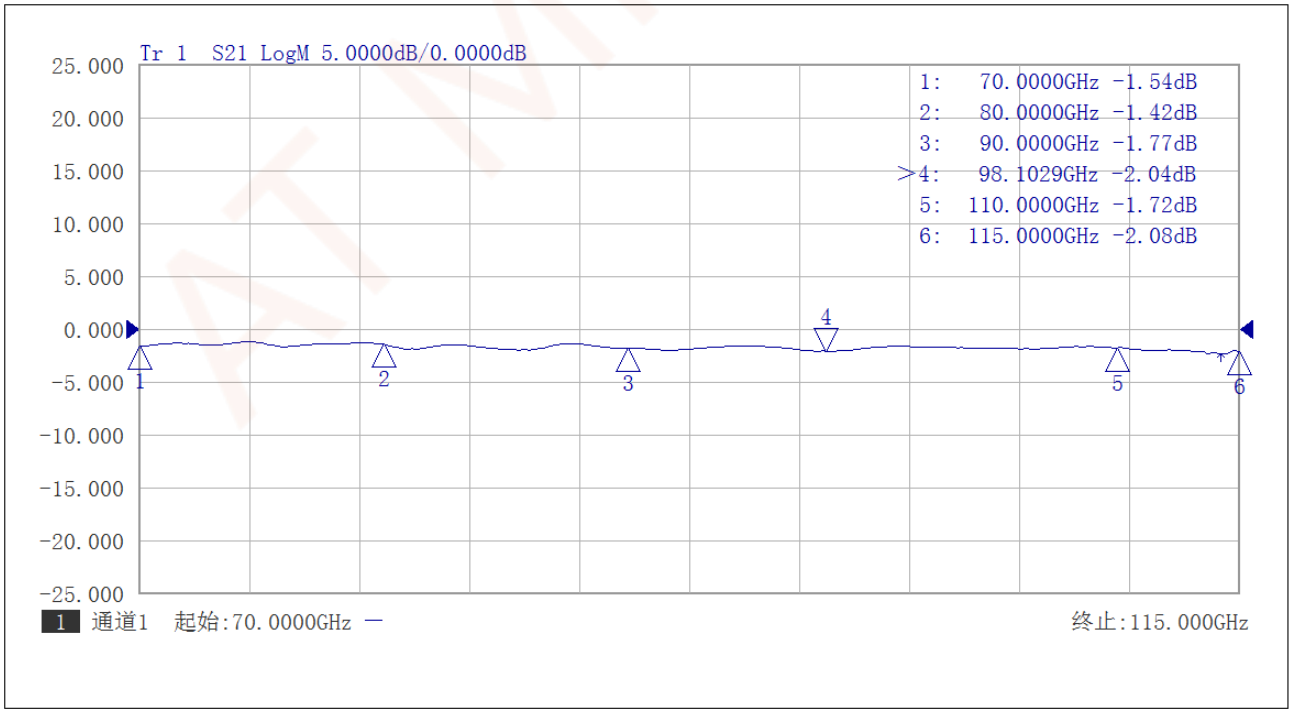
Test Data



Insertion loss vs Frequency 10MHz-70GHz



Insertion loss vs Frequency 70-115GHz

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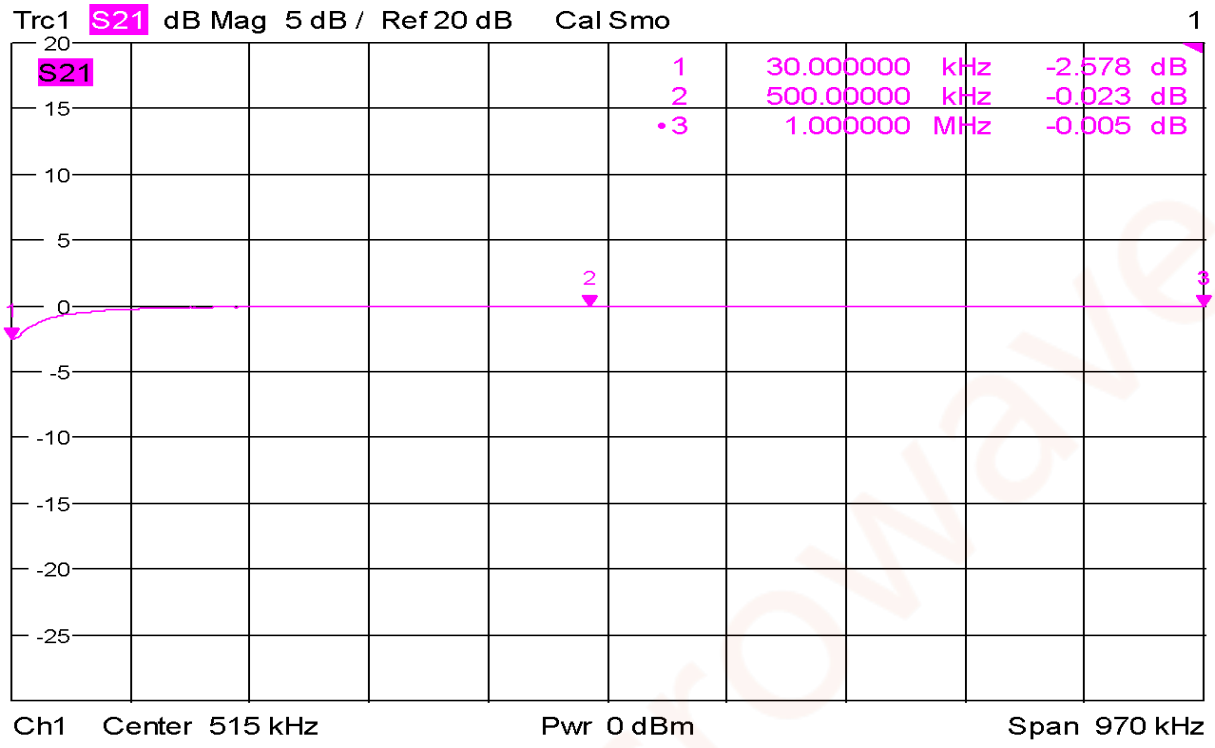

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Low End Frequency TEST

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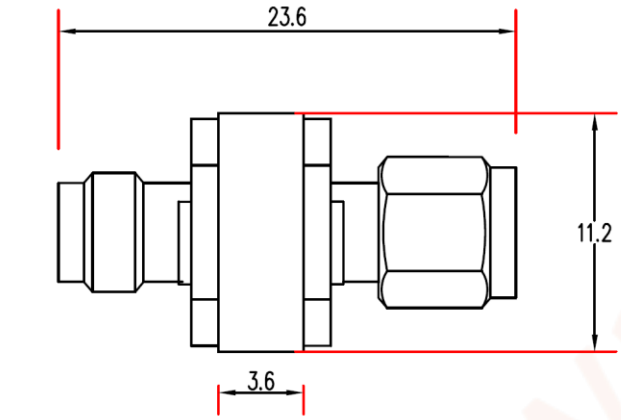
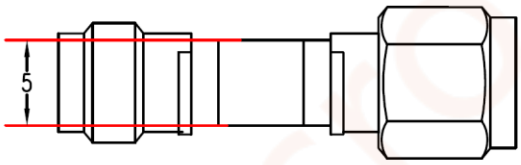
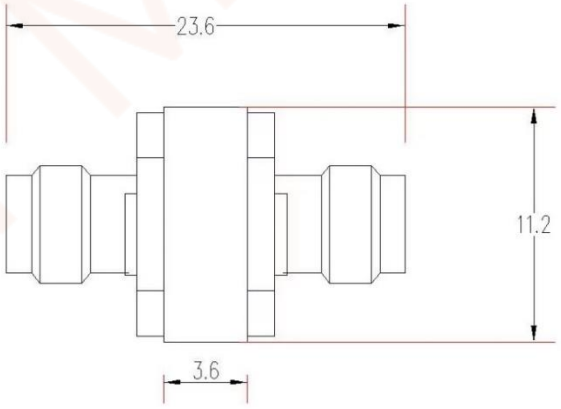
Dimension (mm)





Male to Female



Female to Female