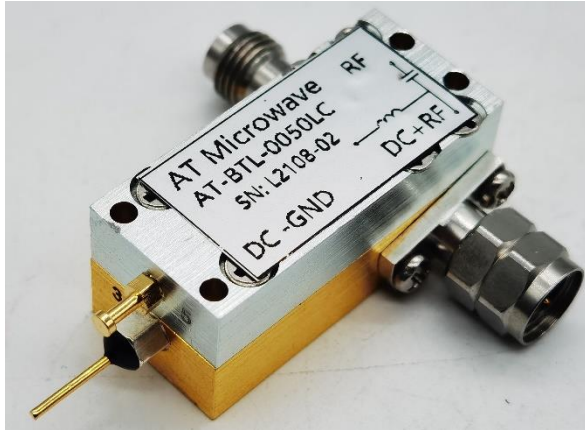


30kHz-50GHz Bias Tee



Product Overview

AT-BTL-0050LC is a broadband bias tee from 30kHz to 50GHz. The insertion loss is -2dB typical. The max Voltage is 16V and Max current is 230mA.

The bias tee can be used in optical communication, MMIC test and many other applications. AT Microwave provides many kinds of bias tee from SMA, 2.92mm, 2.4mm to 1.85mm Connectors

More information, please visit www.atmicrowave.com

Advantages

- ✓ Frequency: 30kHz-50GHz
- ✓ Insertion Loss: -2dB
- ✓ Max Voltage: 16V
- ✓ Power Handling: +27dBm

Application

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

Key Features

Parameter	Min	Typical	Max
Frequency		30kHz-50GHz	
Insertion Loss		-2dB	-4dB
Return Loss	-8dB	-15dB	
Max Voltage			+16V
Current			230mA
Power Handling			+27dBm





AT-BTL-0050LC

30kHz-50GHz Bias Tee

Mechanical Information

Item	Description
DC+RF Port	2.4mm Male
RF Port	2.4mm Female
DC Port	Sold Pin
Case Material	Copper
Finish	Gold Plated
Weight	20g
Size:	See outline

Absolute Maximum Ratings Table

Parameter	Value
Voltage	+16V
RF RF1 Power	+27 dBm
Operating Temperature	-40 to +70C
Storage Temperature	-65 to +125C

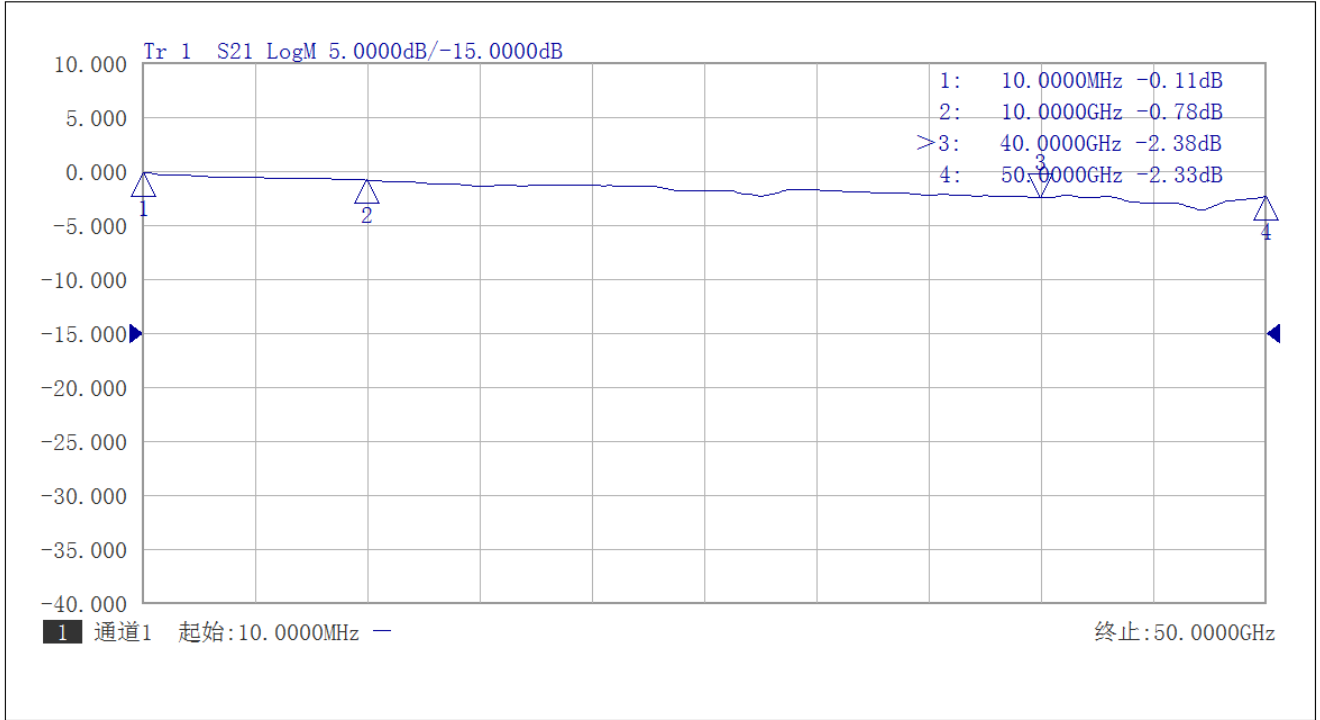
Notes:

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.

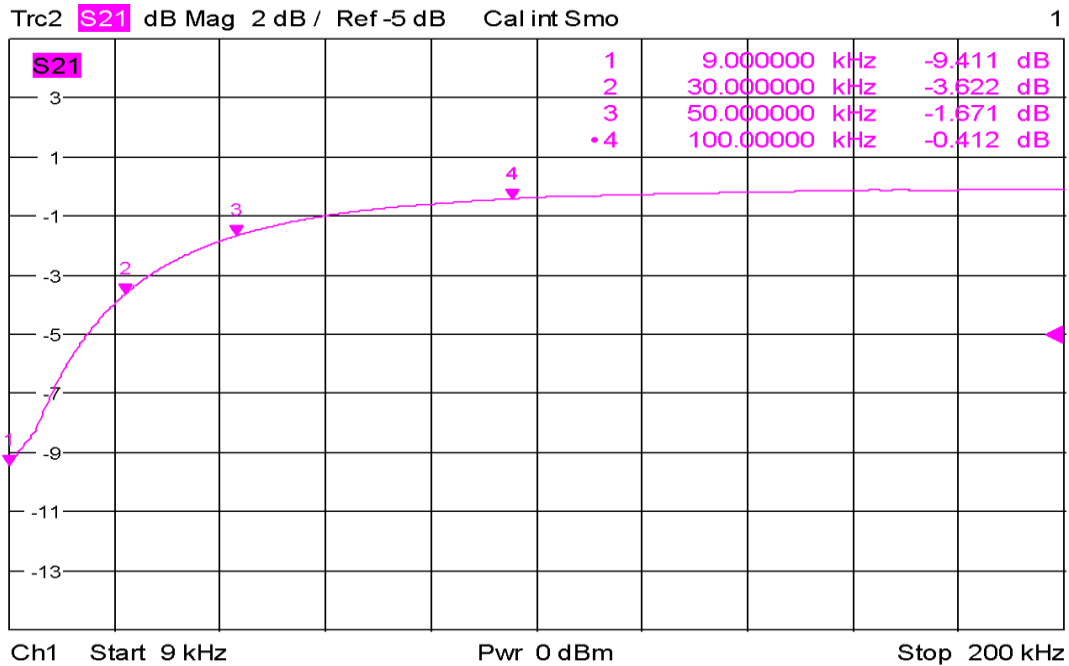


Test Data (25C)

Please note that test curves will vary slightly from unit to unit.



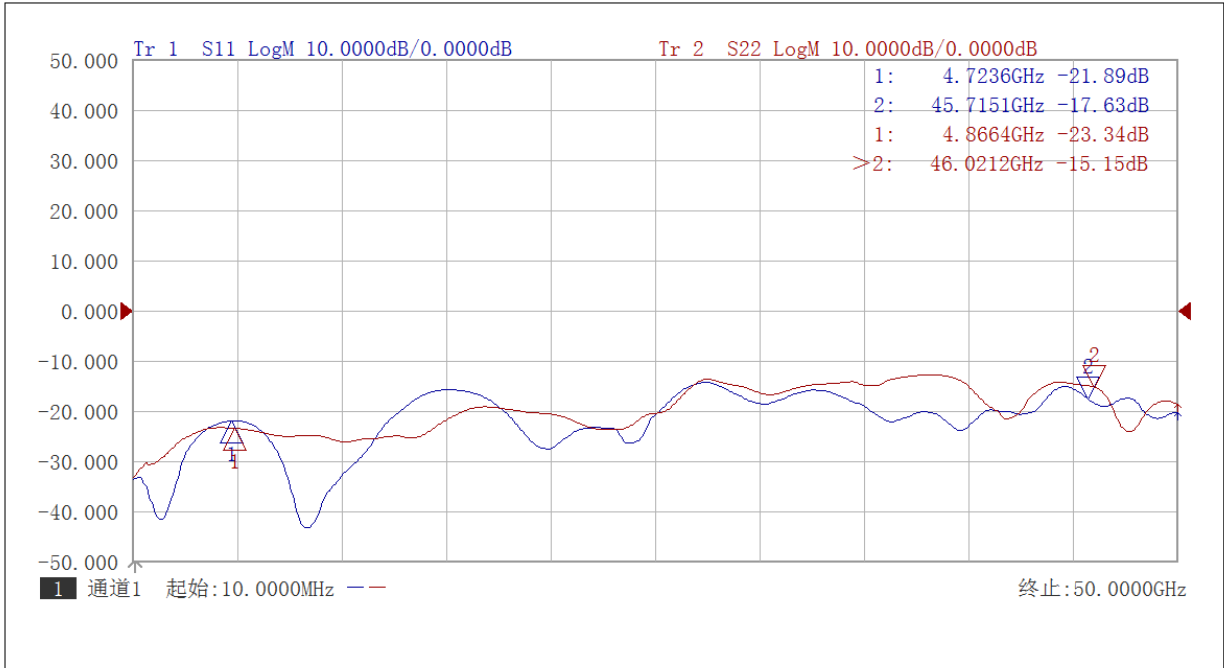
Insertion Loss vs Frequency 10MHz-50GHz



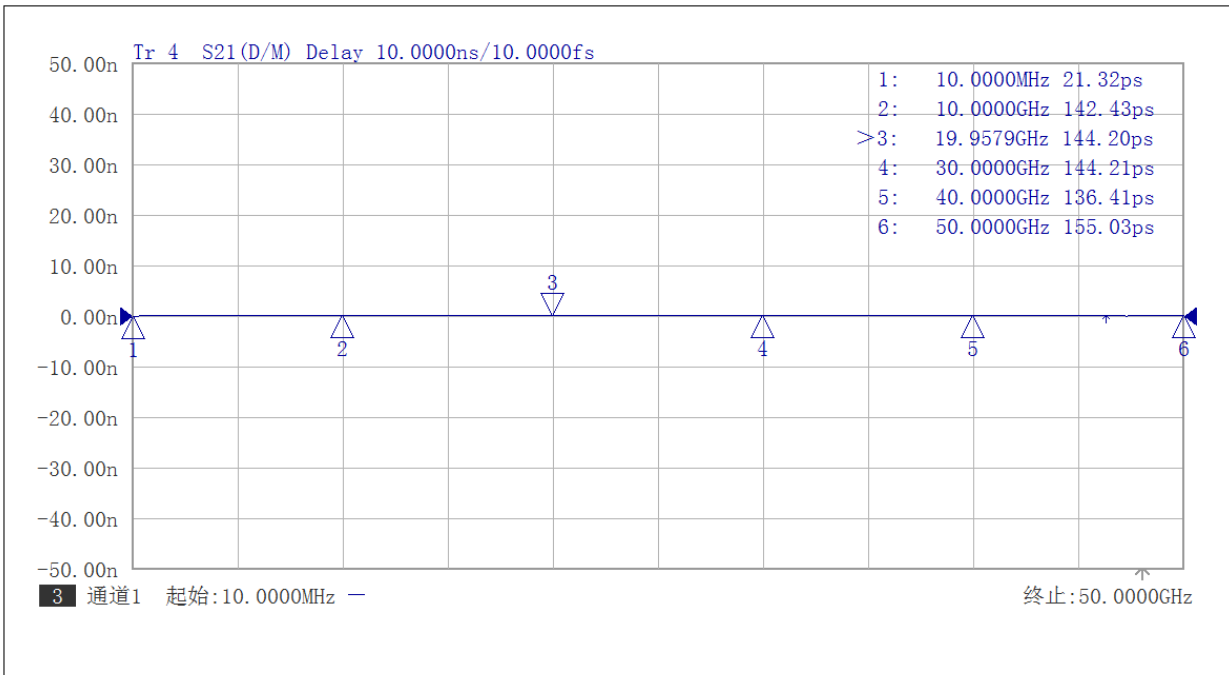
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Low Frequency Insertion Loss vs Frequency





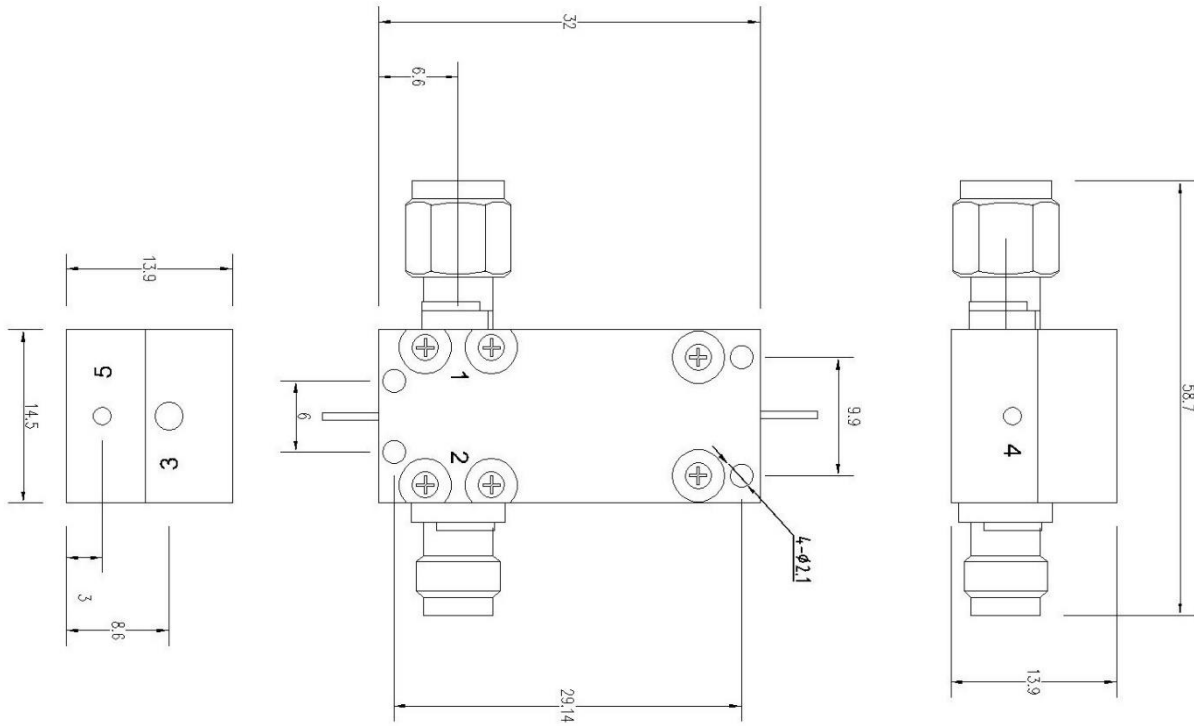
Input and Output Return Loss vs Frequency



Group Delay vs Frequency



Dimension: (unit in mm)



Pin Descriptions

Port#	Description
1	DC+ RF Port
2	RF Port
3	DC Input Port
4	DC Input, Port 3 and 4 are connected inside. Only apply one port during operation.
5	GND

Part Number Selection

Port#	Description
AT-BTL-0050LC	In default, 1=Male, 2=Female
AT-BTL-0050LC-24F24F	1=2.4mm Female, 2=2.4mm Female
AT-BTL-0050LC-24M24F	1=2.4mm Male, 2=2.4mm Female
AT-BTL-0050LC-24M24M	1=2.4mm Male, 2=2.4mm Male

