

30kHz-40GHz Bias Tee



Product Overview

AT-BTL-0040LC is a broadband bias tee from 30kHz to 40GHz. 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.

More information, please visit www.atmicrowave.com

Advantages

- ✓ Frequency: 30kHz-40GHz
- ✓ 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-40GHz	
Insertion Loss		-1.5dB	-3.2dB
Return Loss	-8dB	-15dB	
Group Delay		100ps	
Max Voltage			+16V
Current			230mA
Power Handling			+27dBm





AT-BTL-0040LC

30kHz-40GHz Bias Tee

Mechanical Information

Item	Description
RF1 Port	2.92mm Male
RF2 Port	2.92mm 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 Power	+27 dBm
Operating Temperature	-40 to +70C
Storage Temperature	-65 to +150C

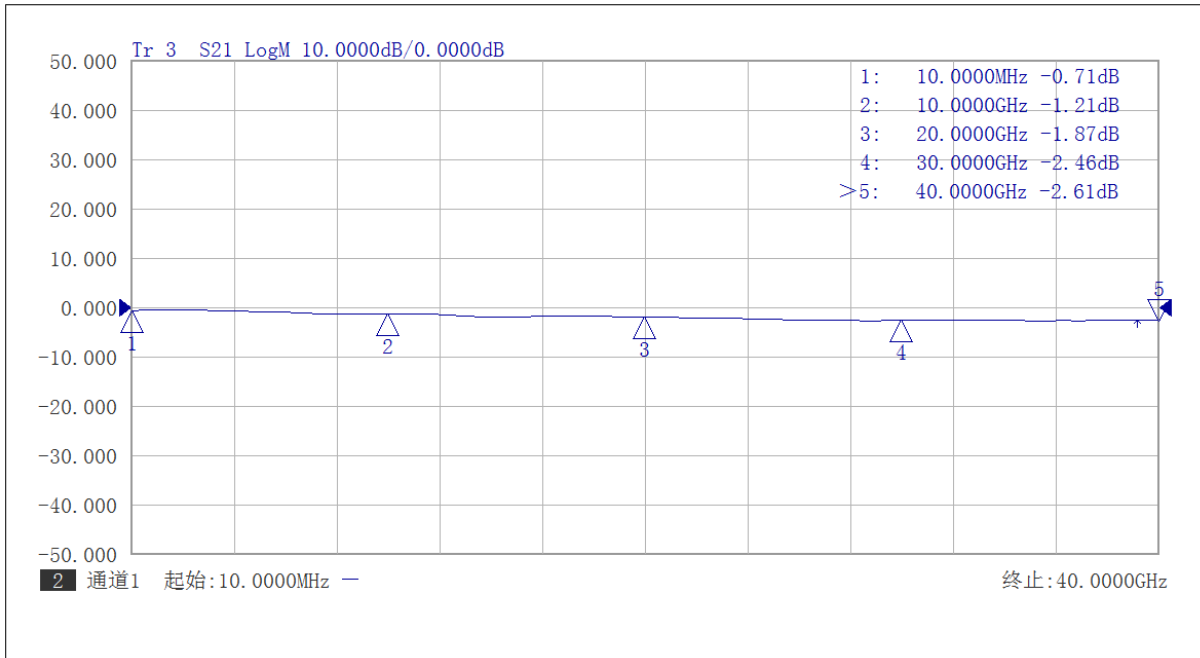
Notes:

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.

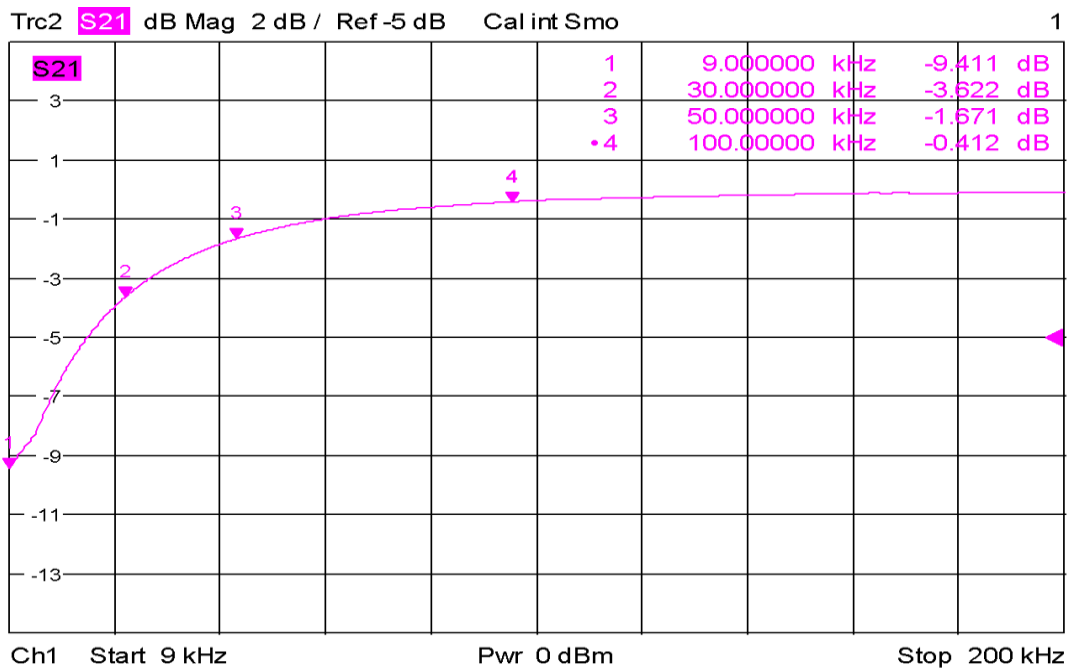


Test Data (25C)

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



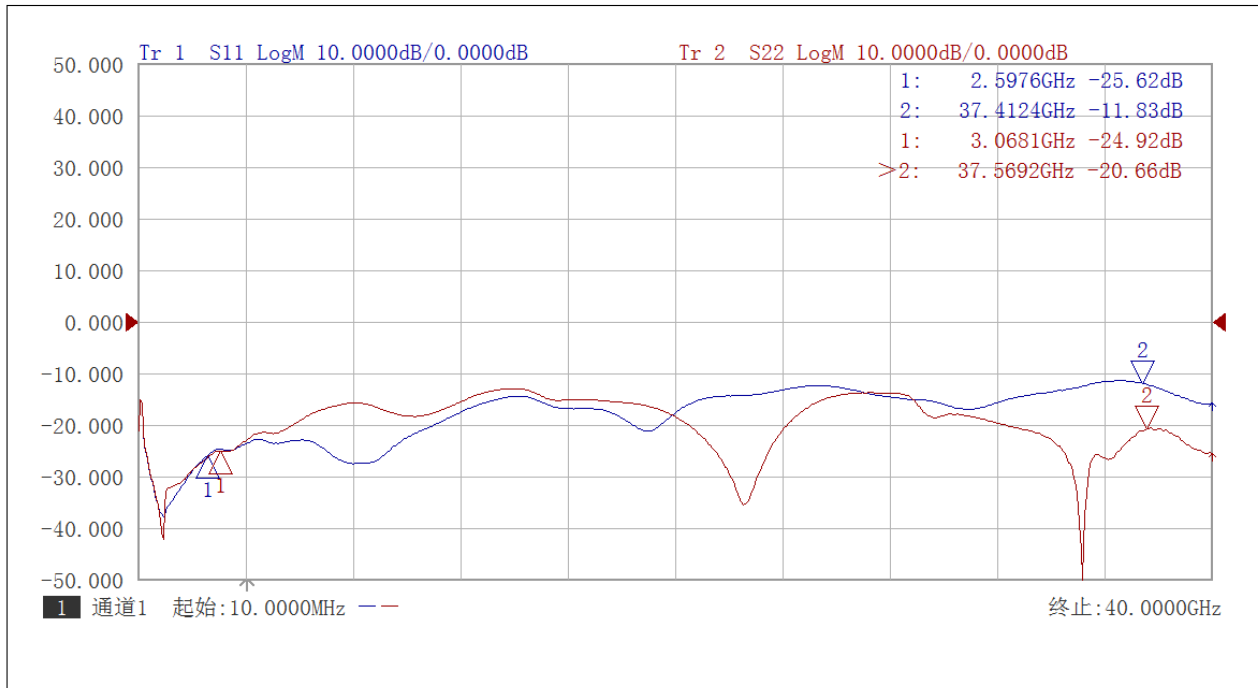
Insertion Loss vs Frequency 10MHz-40GHz



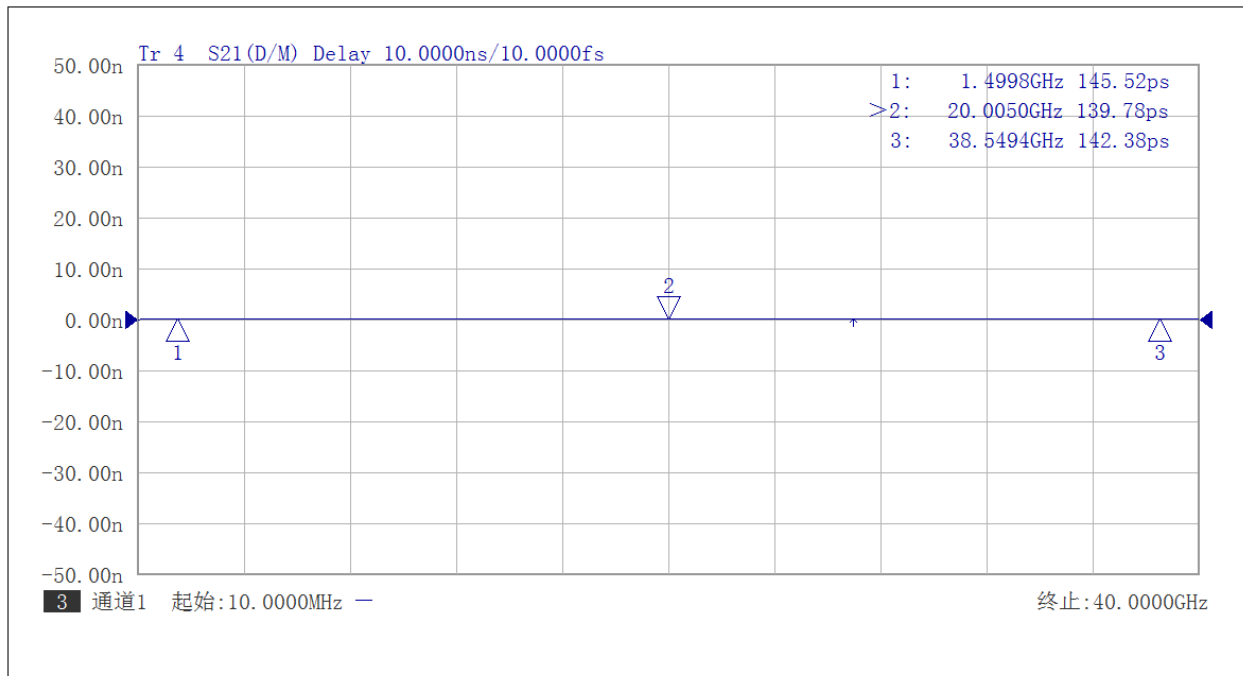
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Low Frequency Insertion Loss vs Frequency





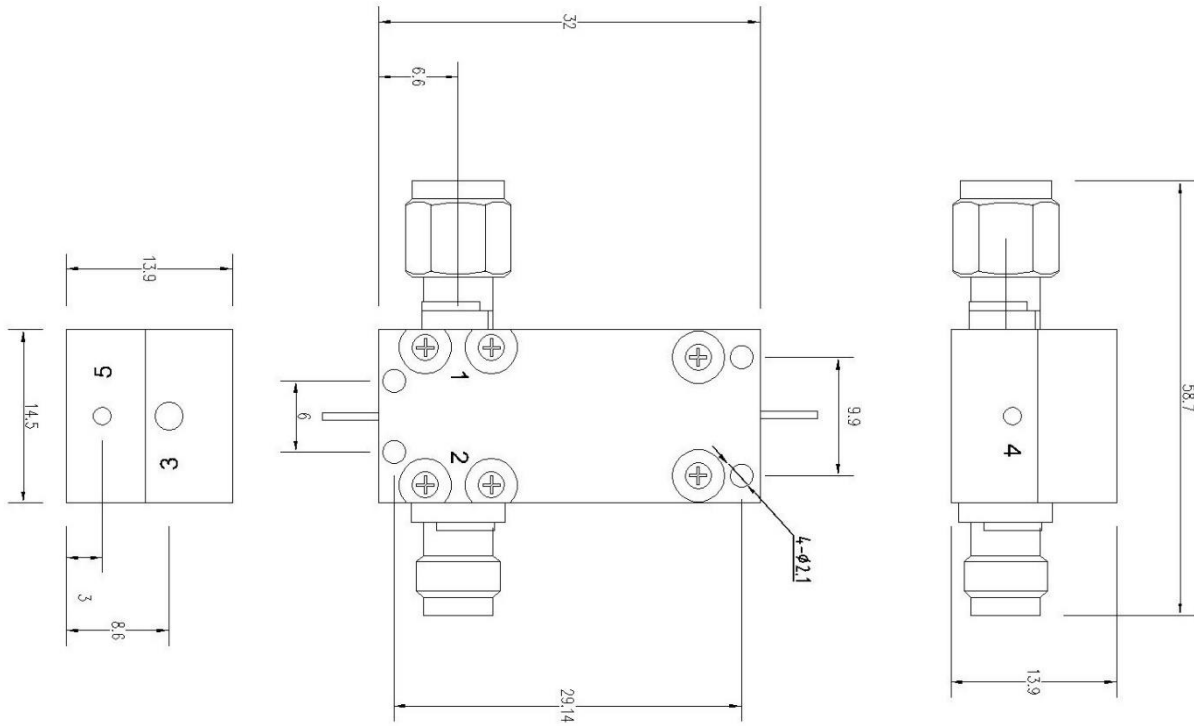
RF1 and RF2 Return Loss 10MHz-40GHz



Group Delay vs Frequency



Dimension: (unit in mm)



Pin Descriptions

Port#	Description
1	DC+ RF
2	RF
3	DC Input
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-0040LC	In default, 1=Male, 2=Female
AT-BTL-0040LC-29F29F	1=2.92mm Female, 2=2.92mm Female
AT-BTL-0040LC-29M29F	1=2.92mm Male, 2=2.92mm Female
AT-BTL-0040LC-29M29M	1=2.92mm Male, 2=2.92mm Male

