

30kHz-40GHz Broadband Bias Tee, High Voltage, High Current, 25V/0.75A

2022-5-17



Product Overview

AT-BTL-0040HC is a broadband bias tee from 30kHz to 40GHz. The insertion loss is -2dB typical. The max Voltage is 25V and Max current is 750mA.

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: 25V
- ✓ Power Handling: +33dBm

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	-3.3dB
Return Loss	-8dB	-15dB	
Group Delay		140ps	
Max Voltage			+25V
Current			750mA
Power Handling			+33dBm
Spec Temp		25C	





AT-BTL-0040HC

30kHz-40GHz Bias Tee

Mechanical Information

Item	Description
RF+DC Port	2.92mm Female
RF Port	2.92mm Male
DC Port	SMA Female
Case Material	Copper
Finish	Gold Plated
Weight	38g
Size:	See outline

Absolute Maximum Ratings Table

Parameter	Value
Voltage	+25V
RF Power	+33 dBm
Operating Temperature	-40 to +70C
Storage Temperature	-65 to +150C

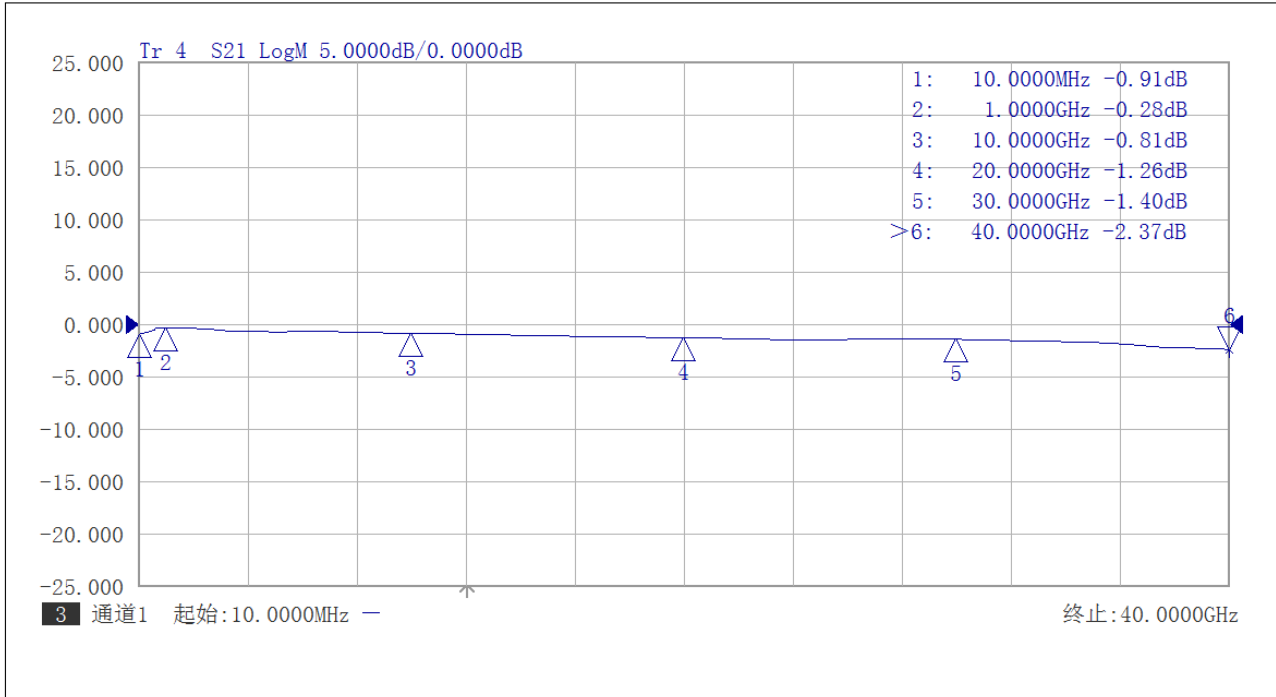
Notes:

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.

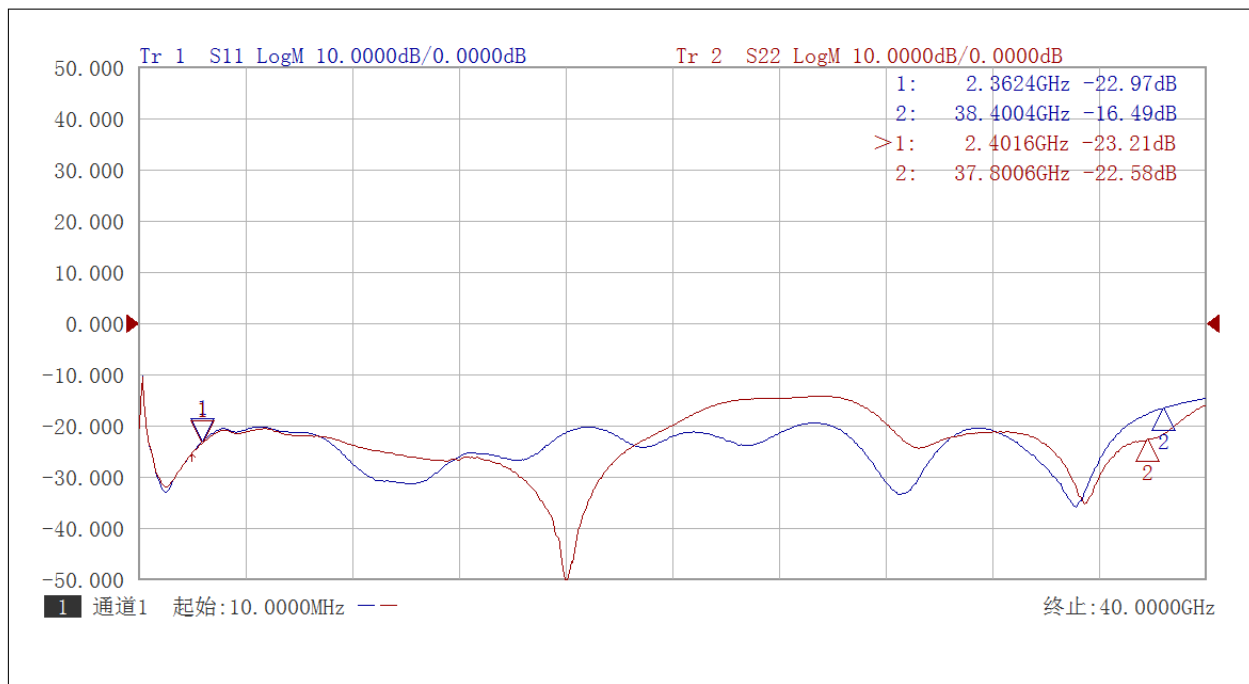


Test Data (25C)

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



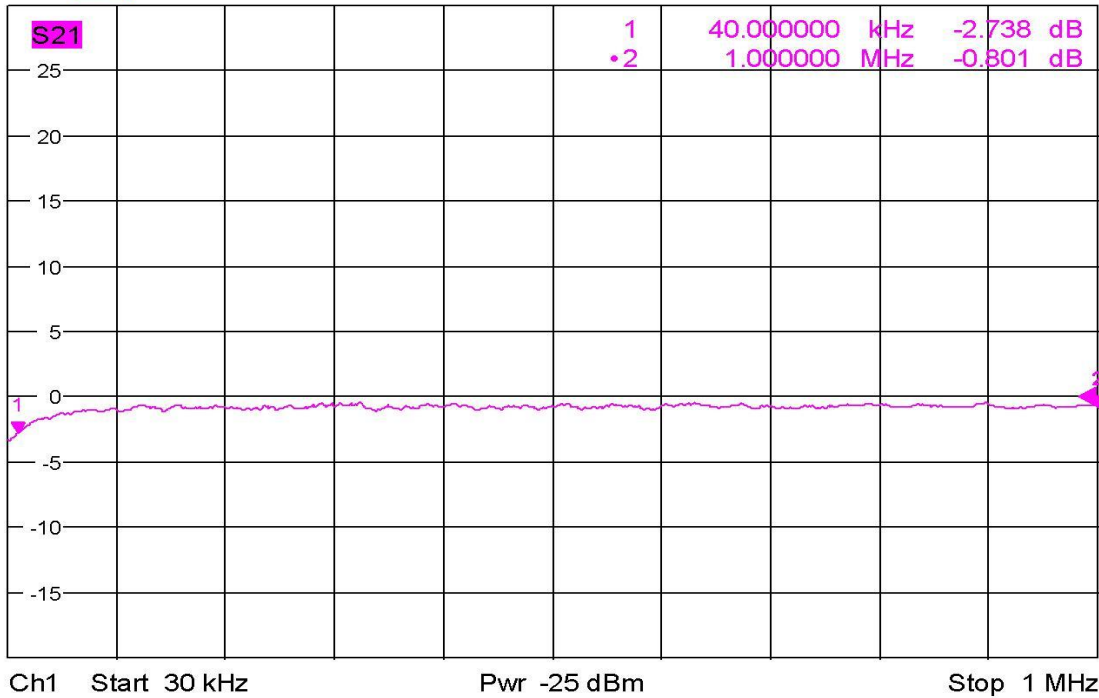
Insertion loss vs Frequency



Return Loss vs Frequency

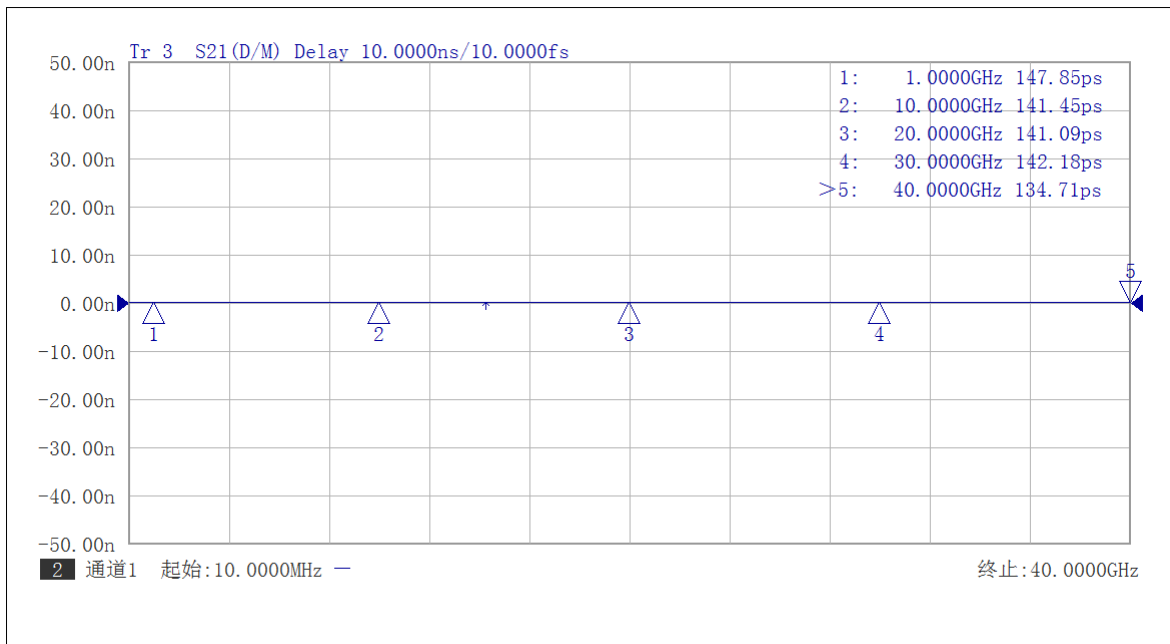


Trc1 S21 dB Mag 5 dB / Ref 0 dB Cal Smo 1 of 1 (Max)



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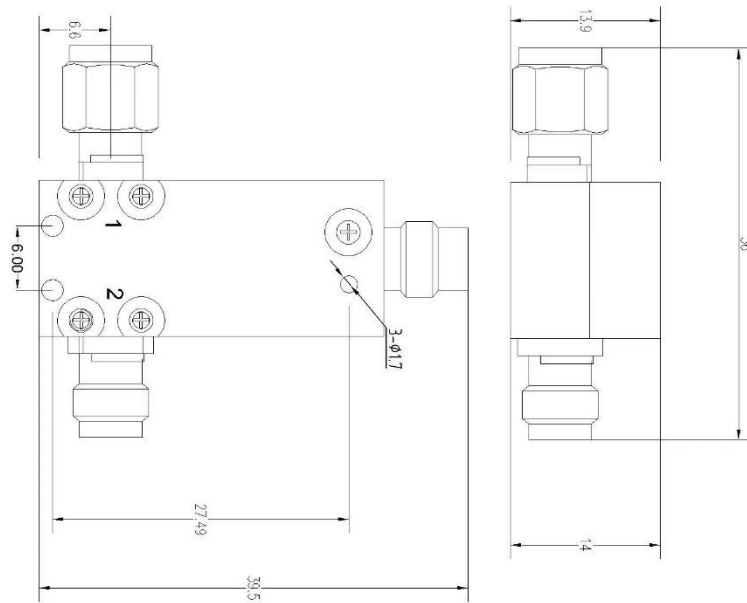
Low Frequency Insertion Loss



Group Delay vs Frequency



Dimension: (unit in mm)



Pin Descriptions

Port#	Description	Connector
1	DC+ RF Port	2.92mm
2	RF Port	2.92mm
3	DC Input	SMA Female

Part Number Selection

Port#	Description
AT-BTL-0040HC	1=Male, 2=Female
AT-BTL-0040HC-2	1=Female, 2=Male
AT-BTL-0040HC-3	1=Female, 2=Female
AT-BTL-0040HC-4	1=Male, 2=Male

PCN

Date	Description
2022-5-17	Change DC+RF Port to Male in default

