

Resistor Power Divider/Combiner DC-40GHz, 2.92mm Female

2025-4-1



Product Overview

AT Microwave offers high performance and broadband power divider from DC-26/40/50/67GHz, with SMA, 2.92mm, 2.4mm and 1.85mm connectors.

The power divider can also be used as power combiner, using Port 2/3 as inputs.

More information, please visit www.atmicrowave.com

Advantages

- ✓ Broadband Performance
- ✓ Low Insertion Loss
- ✓ Good Amplitude and Phase balance
- ✓ Good Return Loss

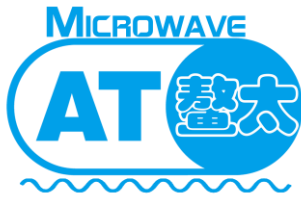
Application

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

Key Features

Parameter	Min	Typical	Max
Frequency Range		DC-40GHz	
Normal Power Splitting		6 dB	
Normal Phase Shift		0 Degree	
Extra Insertion Loss		-0.8dB	-1.5dB
Amplitude Balance		+/-0.3dB	+/-0.5dB
Phase Balance		+/-3 Degree	+/-6 Degree
Return Loss	-10dB	-15dB	
Isolation	6dB	10dB	
CW Power		1W	
Spec Temp		25C	





AT-MRPD2-0040

DC-40GHz Resistor Power Divider

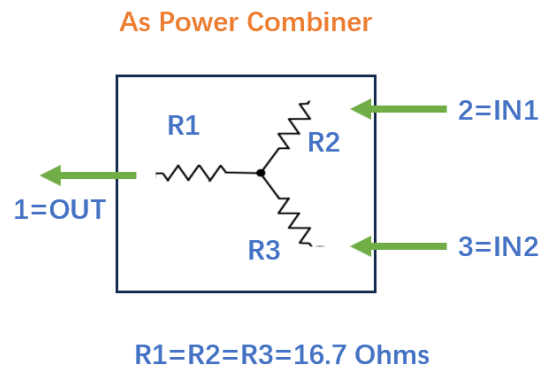
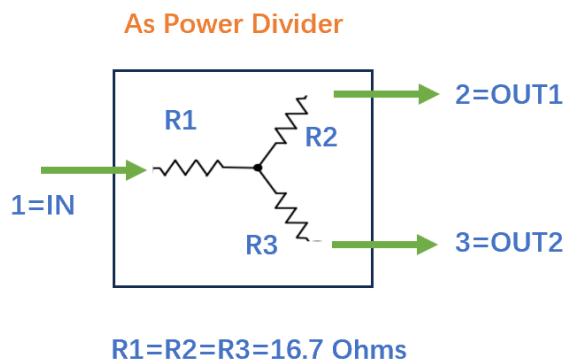
Mechanical Information

Item	Description
Input Port	2.92mm Female
Output Port	2.92mm Female
Case Material	Copper
Finish	Gold Plated
Weight	80g
Size:	See outline

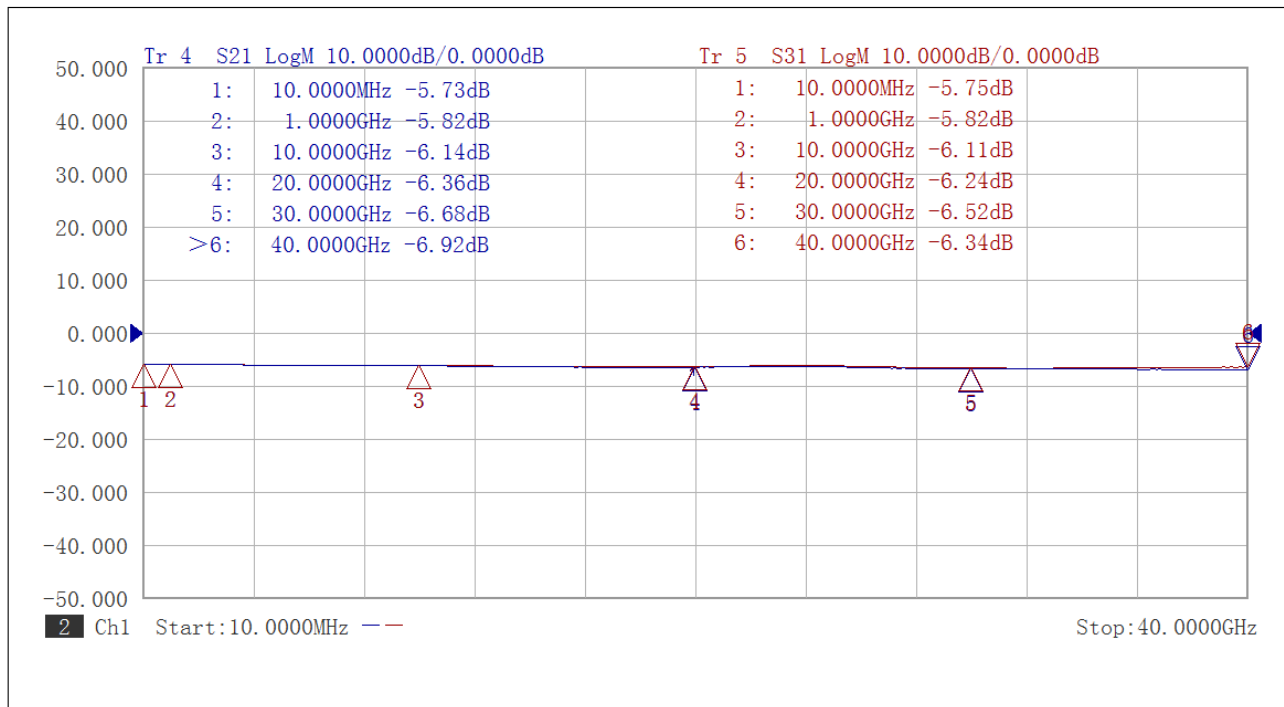
Absolute Maximum Ratings Table

Parameter	Value
RF Input Power CW	1W
Operating Temperature	-40 to + 85C
Storage Temperature	-55 to +125C

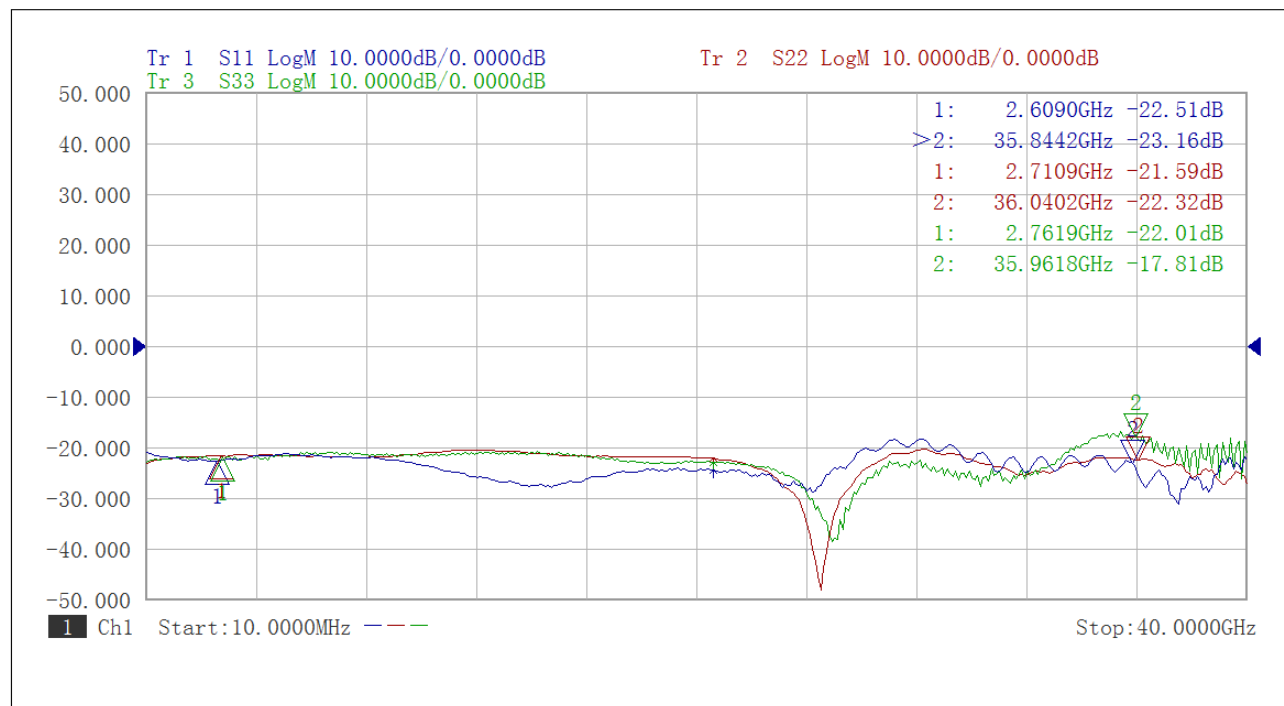
Circuit Schematic



TEST DATA(25C)

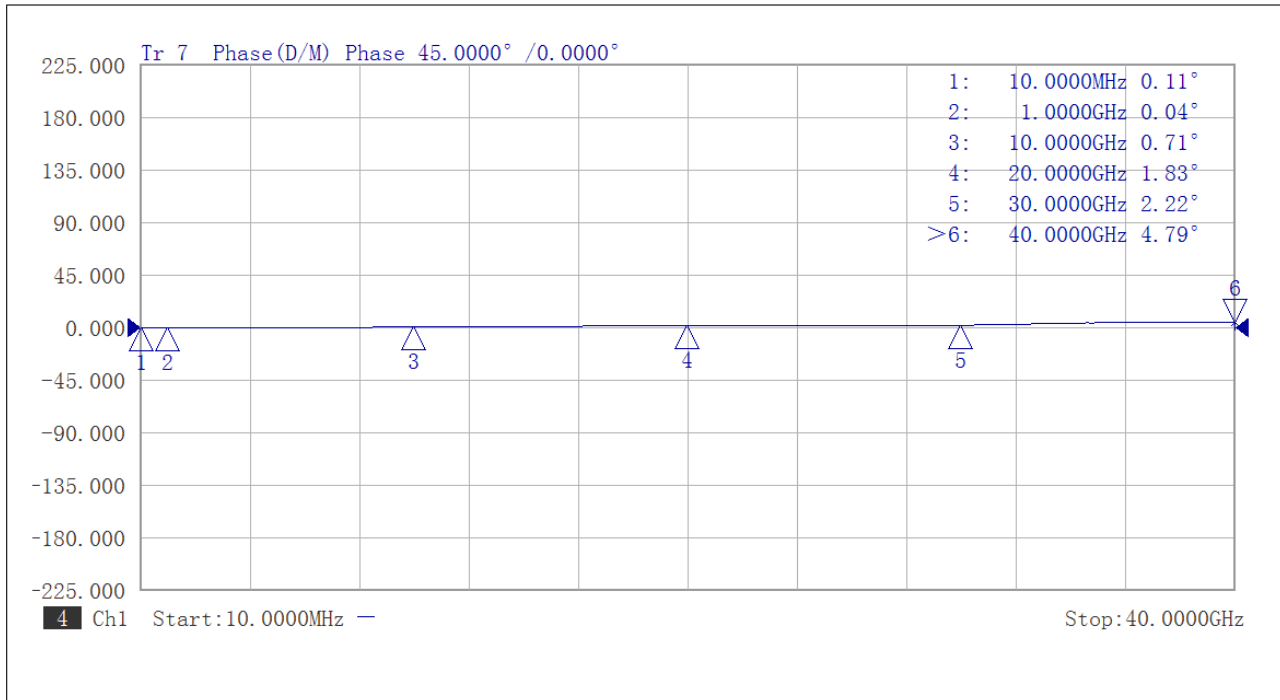


Insertion Loss vs Frequency

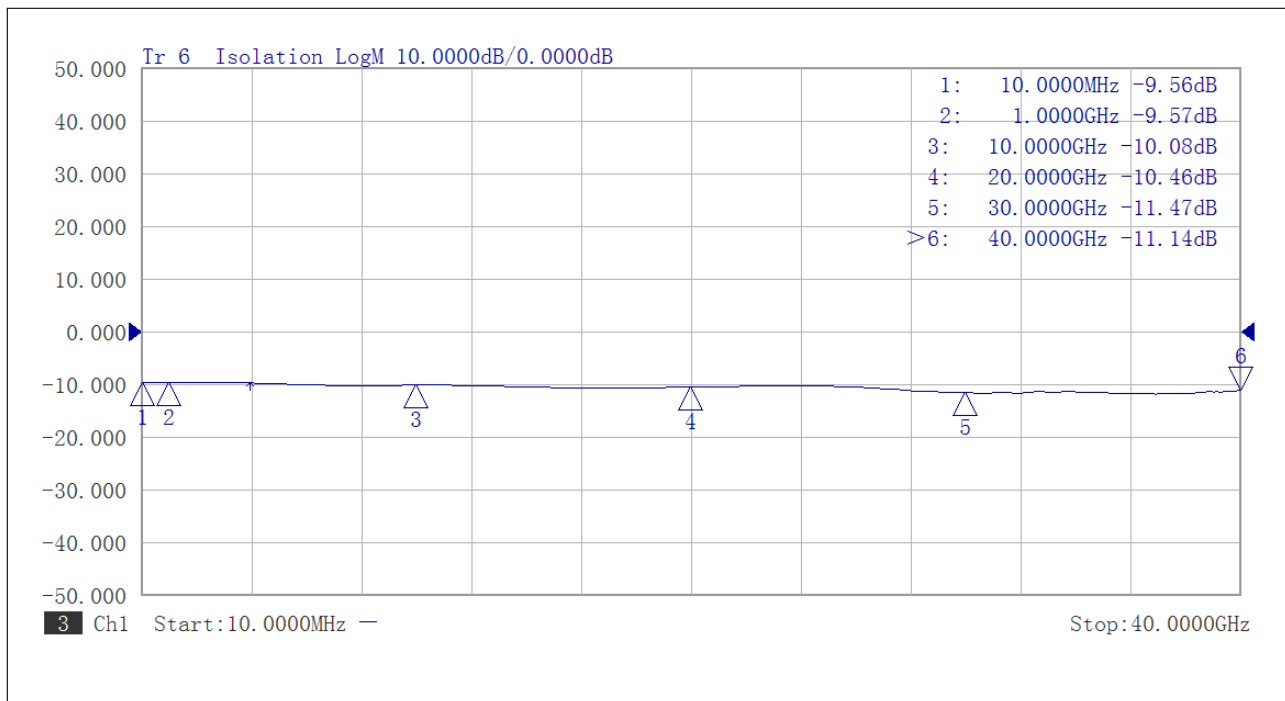


Return Loss vs Frequency





Phase Balance



Isolation vs Frequency



Dimension: (unit in mm)

