

# 0.5-18GHz Broadband Directional Coupler

### Product Overview

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AT Microwave offers high performance and broadband directional couplers from DC-67GHz, with SMA, 2.92mm, 2,4mm and 1.85mm connectors.

Based on our excellent design work, precise machine tolerance and outstanding quality plating, we can provide band pass filter with low insertion loss, good return loss and high rejection at the same time.

More information, please visit [www.atmicrowave.com](http://www.atmicrowave.com)

### Advantages

- ✓ Broadband Performance
- ✓ Excellent Coupling Accuracy
- ✓ High Directivity
- ✓ Good Return Loss

### Application

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

### Key Features

Parameter	Min	Typical	Max
Frequency		0.5-18GHz	
Mean Coupling		10 dB	
Nominal Coupling Loss		0.45dB	
Coupling Accuracy		+/-0.5dB	+/-1.5dB
Main Line Extra Insertion Loss (Note)		-1.0dB	-2.0dB
Main Line Return Loss		-15dB	-10dB
Coupling Line Return Loss		-15dB	-10dB
Directivity	8dB	10dB	
CW Power			50W
Peak Power			3kW
Spec Temp		25C	

Note: Excluding 0.45dB nominal coupling insertion loss



### Mechanical Information

Item	Description
Input Port	SMA Female
Output Port	SMA Female
Case Material	Aluminum
Finish	Painted
Weight	80g
Size:	See outline

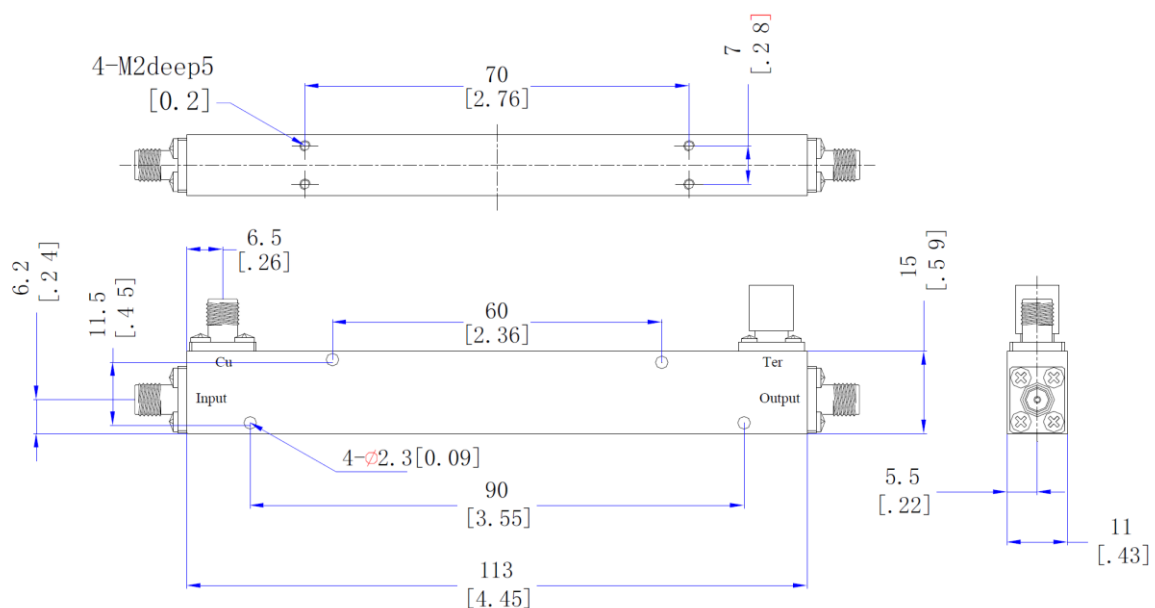
### Absolute Maximum Ratings Table

Parameter	Value
RF Input Power CW	50W
Operating Temperature	-40 to + 85C
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.

### Dimension: (unit in mm)



### Test Data

