

**Transformer with Tap**  
0.05 to 1.0 GHz

M/A-COM Products

**Features**

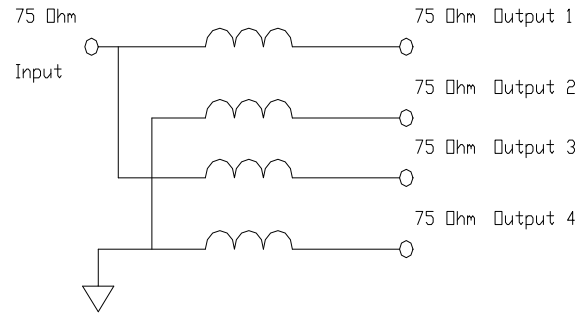
- Surface Mount.
- 1:4 impedance.
- Available on Tape and Reel.

**Description**

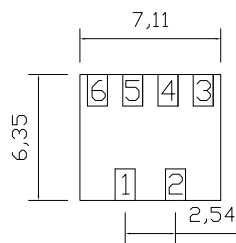
M/A Com’s MABA-008980-CF0440 is a 4:1 transmission line, coupled step-up transformer in a low cost, surface mount package. Ideally suited for high volume applications.



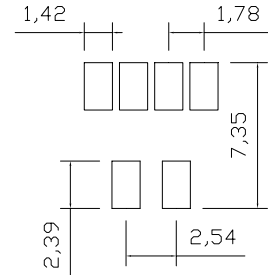
**Schematic**



**Case Style : SM-168A**



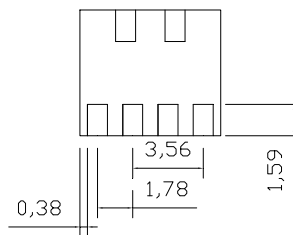
Top View



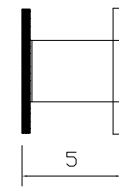
Footprint for PCB design

**Pin Configuration**

Function	Pin No.
Input	1
Ground	2
Output 1	6
Output 2	5
Output 3	4
Output 4	3



Bottom View



Side View

\* Dimensions are millimeters ±0.38 unless otherwise specified.

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**Electrical Specifications: @25°C, 0dBm, 75 Ohms**

Parameter	Test Conditions	Units	MAX	Typ.	Min
Insertion Loss 1 & 3	5 – 50 MHz	dB	-6.0	-5.0	-4.5
	50 – 550 MHz	dB	-7.0	-6.0	-5.0
	550 – 870 MHz	dB	-8.5	-7.0	-6.0
	870 – 1000 MHz	dB	-9.0	-7.8	-6.0
Insertion Loss 2 & 4	5 – 50 MHz	dB	-9.5	-9.0	-6.0
	50 – 550 MHz	dB	-8.0	-7.3	-6.0
	550 – 1000 MHz	dB	-8.5	-7.3	-6.0
Amp Balance	5 – 50 MHz	dB	± 5.0	- 4.0	-
	50 – 870 MHz	dB	± 3.0	-1.8	-
	870 – 1000 MHz	dB	± 1.5	-0.5	-
Phase Balance	5 – 50 MHz	Degrees	± 35	30	-
	50 – 300 MHz	Degrees	± 10	2	-
	300 – 700 MHz	Degrees	± 20	10	-
	700 – 1000 MHz	Degrees	± 25	15	-

**Absolute Maximum Ratings**

Parameter	Absolute Maximum
RF Power	50 mW
Peak IF Current	40 mA
Storage Temperature	-40°C to +85° C
Operating Temperature	-40°C to +85° C
Pin Temperature (10 Seconds)	260° C

**Ordering Information**

Part Number	Package
MABA-008980-CF0290	900 piece reel

1. Exceeding any one or combination of these limits may cause permanent damage to this device.
2. M/A-COM does not recommend sustained operation near these survivability limits.

2

**ADVANCED:** Data Sheets contain information regarding a product M/A-COM Technology Solutions is considering for development. Performance is based on target specifications, simulated results, and/or prototype measurements. Commitment to develop is not guaranteed.

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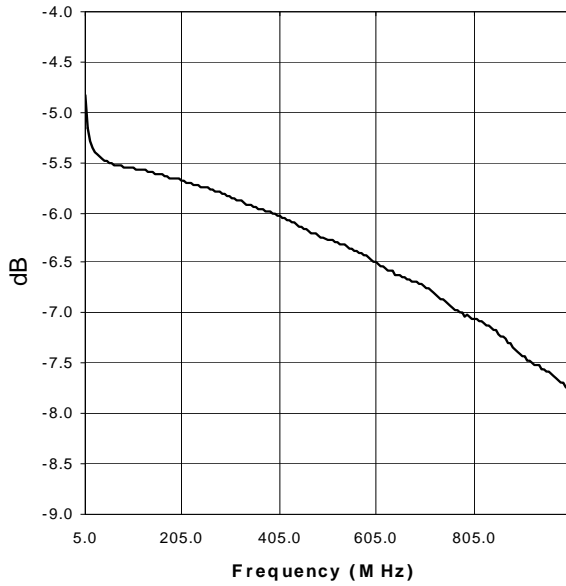
Visit [www.macomtech.com](http://www.macomtech.com) for additional data sheets and product information.

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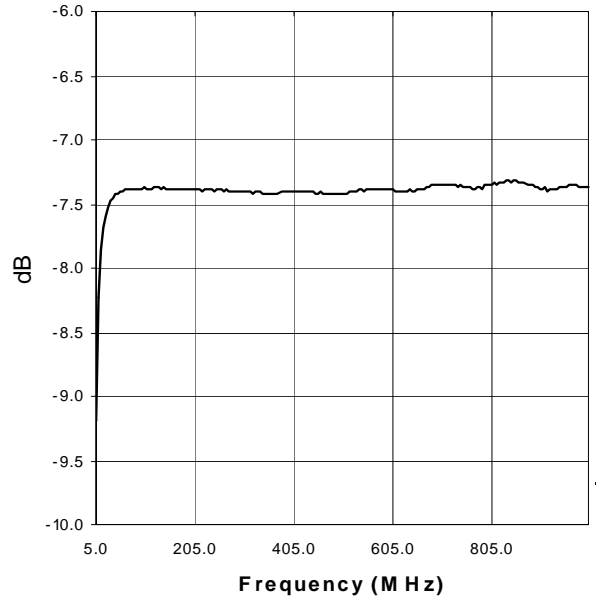
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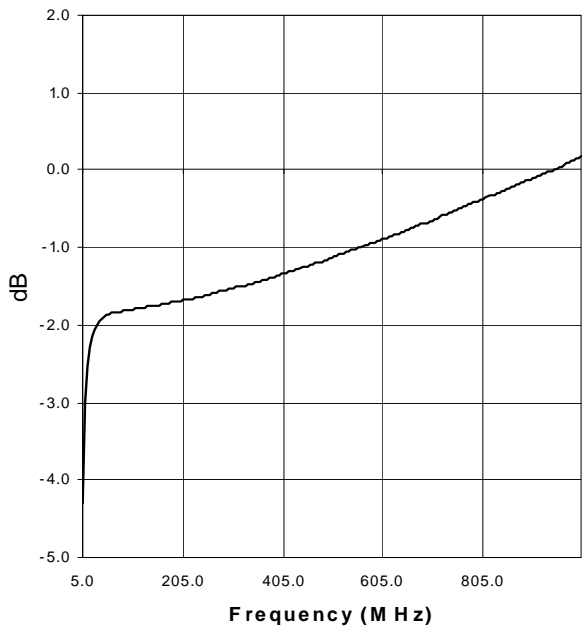
**Insertion Loss 1&3**



**Insertion Loss 2&4**



**Amplitude Unbalance**



**Phase Unbalance**

