Transformer with Tap 0.05 to 1.0 GHz



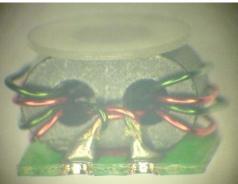
M/A-COM Products

Features

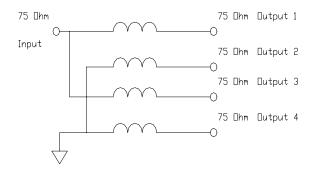
- Surface Mount.
- 1:4 impedance.
- Available on Tape and Reel.

Description

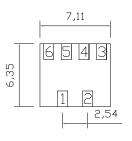
M/A Com's MABA-008980-CF0440 is a 4:1 transmission line, coupled step-up transformer in a low cost, surface mount package. Ideally suited for high volume applications.

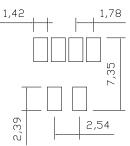


Schematic



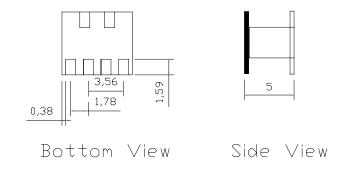
Case Style : SM-168A





Top View

Footprint for PCB design



* Dimensions are millimeters ±0.38 unless otherwise specified.

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Pin Configuration

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



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

Parameter	Test Conditions	Units	MAX	Тур.	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.
- M/A-COM does not recommend sustained operation near these survivability limits.

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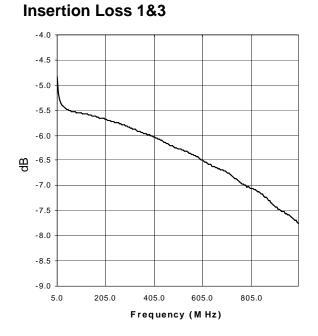
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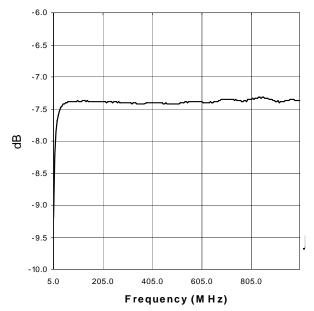


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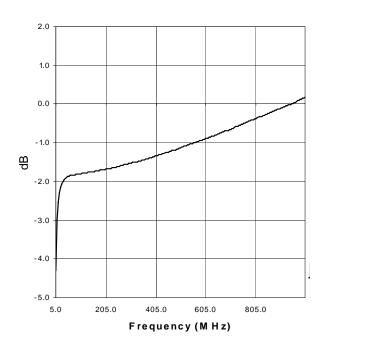
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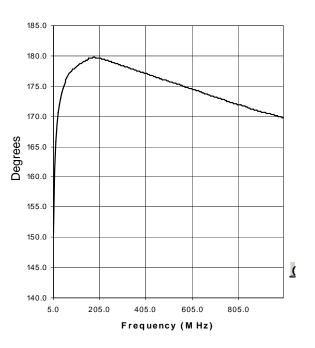
Insertion Loss 2&4



Amplitude Unbalance



Phase Unbalance



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