

MABA-009807-CF4010



4:1 RF Transformer
0.05 - 3.072 MHz

M/A-COM Products
Rev. V2

Features

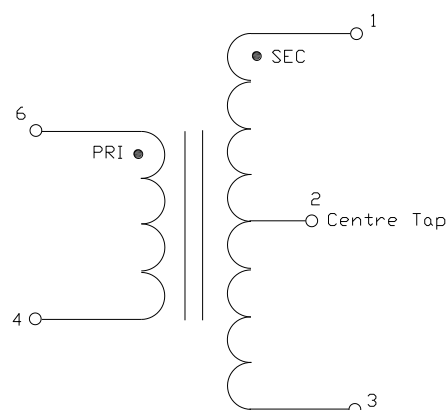
- Surface Mount
- 4:1 Impedance
- CT on Secondary
- 50 Ohm
- RoHS compliant, lead free
- RoHS version of ETM4-1T-2

Description

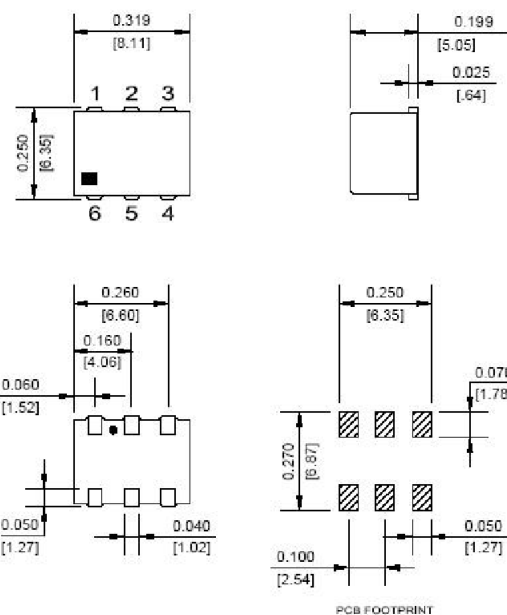
M/A-COM's MABA-009807-CF4010 is a 4:1 RF Transformer in a low cost surface mount package. Ideally suited for high volume CATV application.



Schematic



Case Style SM-1



Pin Configuration

Function	Pin Number
Secondary Dot	1
Secondary Centre Tap	2
Secondary	3
Primary	4
Not Connected	5
Primary Dot	6

Ordering Information

Part Number	Package
MABA-009807-CF4010	900 pieces per reel

Dimensions in inches [mm] Tolerance: .xx ± .02, .xxx ± .010

Note: Reference Application Note **M513** for reel size information.

* Restrictions on Hazardous Substances, European Union Directive 2002/95/EC.

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PRELIMINARY: Data Sheets contain information regarding a product M/A-COM Technology Solutions has under development. Performance is based on engineering tests. Specifications are typical. Mechanical outline has been fixed. Engineering samples and/or test data may be available. Commitment to produce in volume is not guaranteed.

• **North America** Tel: 800.366.2266 • **Europe** Tel: +353.21.244.6400
• **India** Tel: +91.80.4155721 • **China** Tel: +86.21.2407.1588

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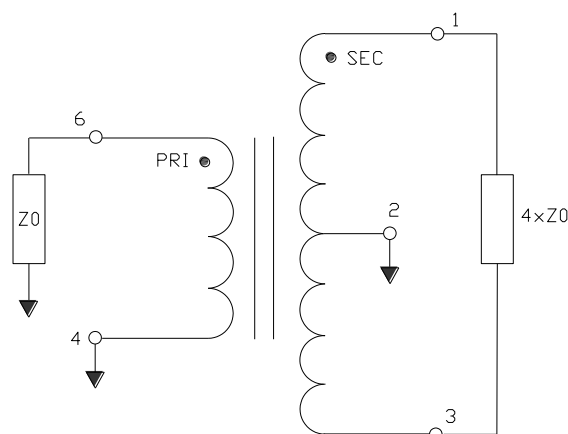
Electrical Specifications: $T_A = 25^\circ\text{C}$, 0dBm, $Z_0 = 50\Omega$

Parameter	Test Conditions	Units	Min.	Typ.	Max.
Frequency Range	.05 – 3.072 MHz				
Insertion Loss	.05 – 3.072 MHz	dB	–	–	1
Amplitude Balance	.05 – 3.072 MHz	dB	–	–	± 0.1
Phase Balance	.05 – 3.072 MHz	$^\circ$	–	–	± 1
Input Return Loss	.05 – .20 MHz .20 - 3.072 MHz	dB dB	18 25	–	–

Recommended Maximum Ratings

Parameter	Value
RF Power	250mW
DC Current	30mA
Operating Temperature	-20°C to $+85^\circ\text{C}$
Storage Temperature	-55°C to $+100^\circ\text{C}$

Application Circuit



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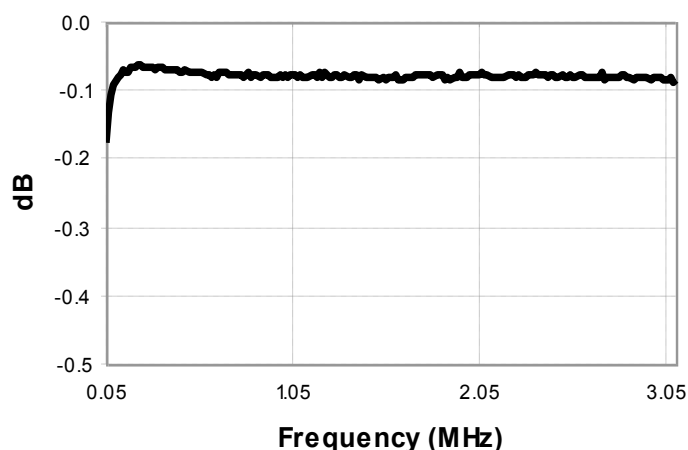


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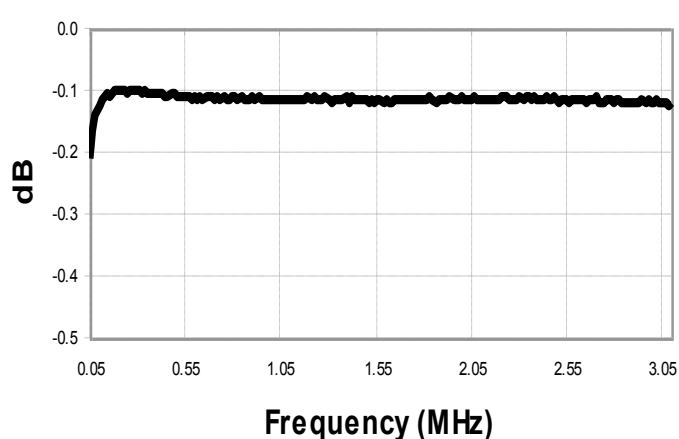
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Typical Performance Curves: $T_A = 25^\circ\text{C}$, 0dBm, $Z_0 = 50\Omega$

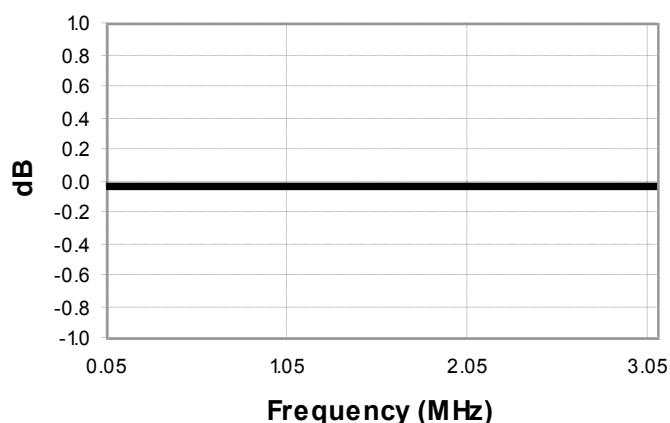
Insertion Loss: Pin4 - Pin1



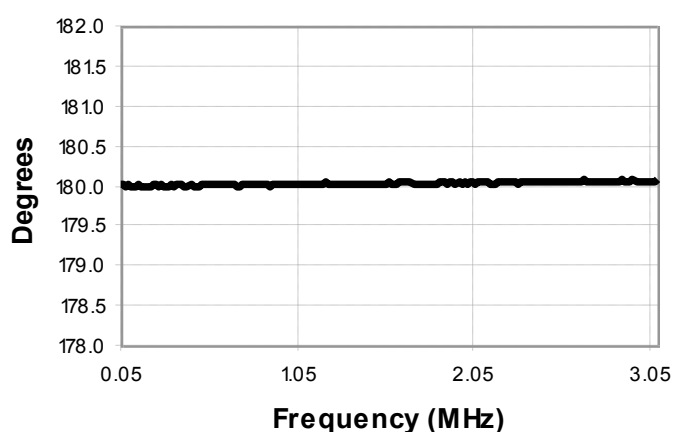
Insertion Loss: Pin4 - Pin3



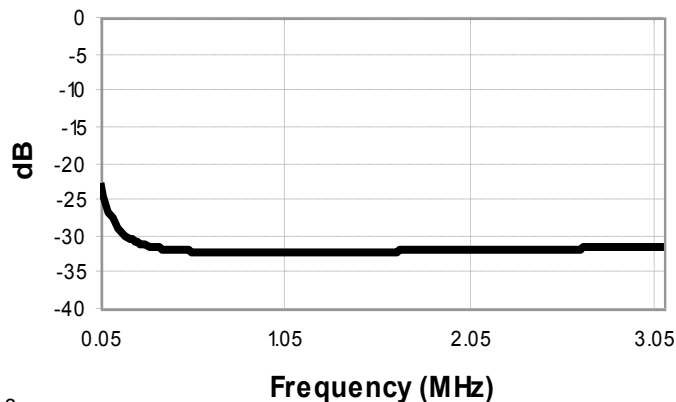
Amplitude Balance



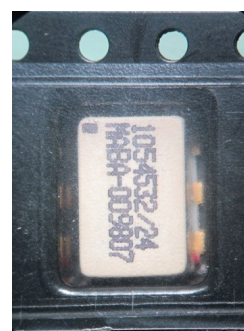
Phase Balance



Return Loss: Input



Component Package orientation



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