MABA-009572-CF18A0



Transformer, 1:1 Flux Coupled Transformer 5 to 200 MHz

M/A-COM Products Released, Rev. V2

Features

- Surface mount
- 1:1 Impedance ratio
- Centre tap on secondary
- 75Ω single ended to 75Ω balanced
- Suitable for DOCSIS 3.0
- 260°C reflow compatible
- RoHS* compliant
- Available on tape and reel.

Description

M/A Com's MABA-009572-CF18A0 is a 1:1 RF Flux coupled transformer in a low cost, surface mount package. Ideally suited for broadband CATV applications.

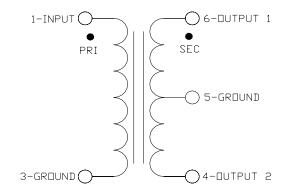


Pin Configuration

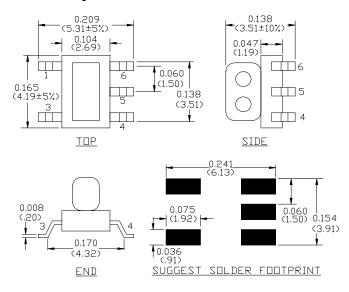
Pin no.	Function		
1	Primary Dot		
3	Primary		
4	Secondary		
5	Secondary Centre Tap		
6	Secondary dot		

Note: Reference Application Note M513 for reel size information.

Schematic



Case Style: SM-138



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

Ordering Information

Part number	Description		
MABA-009572-CF18A0	2000 piece reel		
MABA-009572-CF18TB	Customer Test Board		

ADVANCED: Data Sheets contain information regarding a product M/A-COM is considering for development. Performance is based on target specifications, simulated results, and/or prototype

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

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measurements. Commitment to develop is not guaranteed. PRELIMINARY: Data Sheets contain information regarding a product M/A-COM 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.

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[•] Europe Tel: 44.1908.574.200 / Fax: 44.1908.574.300

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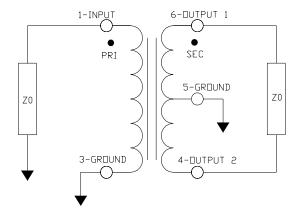
Electrical Specifications: $T_A = 25$ °C, 0dBm, $Z_0 = 75\Omega$

Parameter	Test Conditions	Units	Min	Тур	Max
Insertion Loss	5 - 60 MHz 60 - 150 MHz 150 - 200 MHz	dB dB dB	- - -	0.36 0.50 0.67	0.5 0.7 1.0
Amplitude Unbalance (Nominal 0dB)	5 - 60 MHz 60 - 200 MHz	dB dB	-	0.01 0.09	±0.1 ±0.5
Phase Unbalance (Nominal 180°)	5 - 60 MHz 60 - 200 MHz	0	-	0.1 0.5	±1.0 ±3.0
Input Return Loss	5 - 60 MHz 60 - 200 MHz	dB dB	20 12	29 19	

Recommended Maximum Ratings

Parameter	Value		
Input power	At least +28dBm (631mW)		
DC current (tested at 5V)	At least 600mA		
Operating Temperature	-40°C to +100°C		
Storage Temperature	-55°C to +100°C		

Application Circuit



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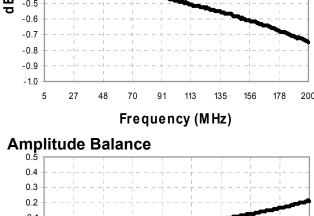


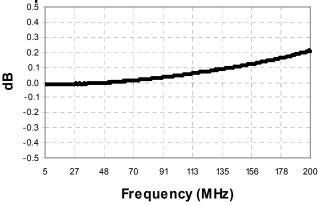
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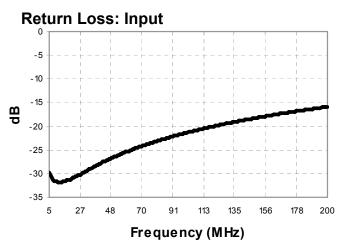
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Typical Performance Curves: $T_A = 25$ °C, 0dBm, $Z_0 = 75\Omega$

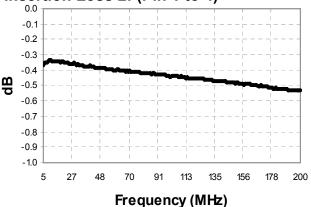




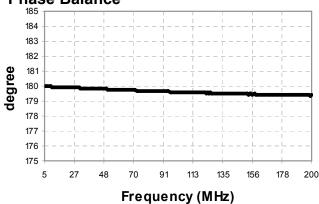








Phase Balance



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