MABA-007532-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
- Suitable for DOCSIS 3.0
- 260°C reflow compatible
- RoHS* compliant, lead free
- Available on tape and reel.

Description

M/A Com's MABA-007532-CF18A0 is a 1:1 RF Flux coupled transformer in a low cost, surface mount package. Ideally suited for broadband CATV applica-

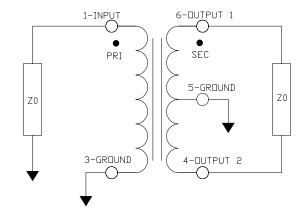


Pin configuration

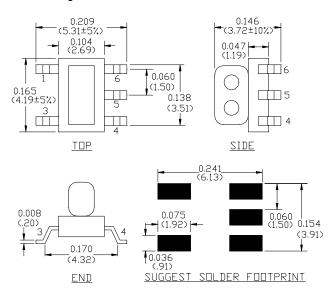
Pin no.	Function	
1	Primary Dot	
3	Primary	
4	Secondary	
5	Secondary Centre Tap	
6	Secondary dot	

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-007532-CF18A0	2000 piece reel		
MABA-007532-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

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

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

M/A-COM Inc. and its affiliates reserve the right to make changes to the product's or information contained herein without notice.

North America Tel: 800.366.2266 / Fax: 978.366.2266

Europe Tel: 44.1908.574.200 / Fax: 44.1908.574.300

Asia/Pacific Tel: 81.44.844.8296 / Fax: 81.44.844.8298 Visit www.macom.com for additional data sheets and product information.

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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	- - -	0.3 0.4 0.7	0.5 0.8 1.1
Amplitude Unbalance (Nominal 0dB)	5 - 60 MHz 60 - 200 MHz	dB dB	-	0.0 0.2	±0.1 ±0.6
Phase Unbalance (Nominal 180°)	5 - 60 MHz 60 - 200 MHz	0	-	0.1 0.3	±2.0 ±4.0
Input Return Loss	5 - 60 MHz 60 - 200 MHz	dB dB	20 10	31 17	-

Absolute Maximum Ratings 1,2

Parameter	Absolute maximum		
Input power	At least +28dBm (631mW)		
DC current (tested at 5V)	At least 600mA		
Operating Temperature	-40°C to +85°C		
Storage Temperature	-55°C to +100°C		

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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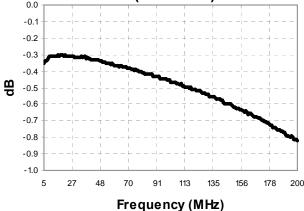


Transformer, 1:1 Flux Coupled Transformer 5 to 200 MHz

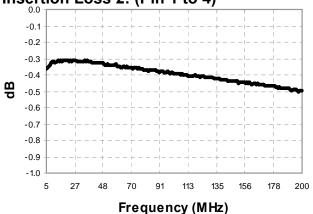
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Typical Performance Curves: $T_A = 25$ °C, 0dBm, $Z_0 = 75\Omega$

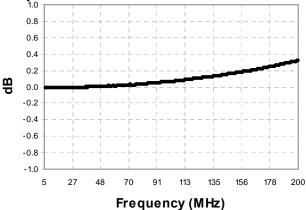




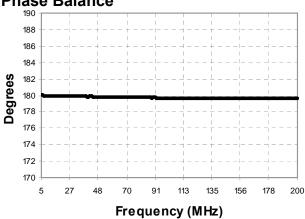
Insertion Loss 2: (Pin 1 to 4)



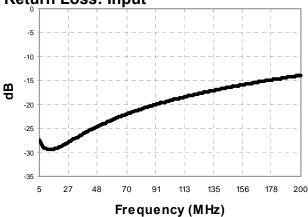
Amplitude Balance



Phase Balance



Return Loss: Input



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