

RoHS Compliant



MABA-007532-CF18A0 V1P

1:1 Flux Coupled Transformer 5-50 MHz

Features

- Surface Mount
- 1:1 Impedance
- Centre tap on secondary
- 260°C Reflow Compatible
- RoHS* Compliant
- Available on Tape and Reel. Reel quantity 2000
- RoHs version of MABACT0022

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 high volume CATV/Broadband applications.



Pin Configuration

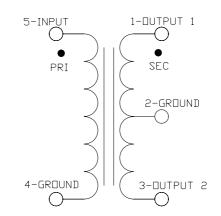
Pin No.	Function		
1	Secondary Dot		
2	Secondary centre tap		
3	Secondary		
4	Primary		
5	Primary Dot		

Ordering Information

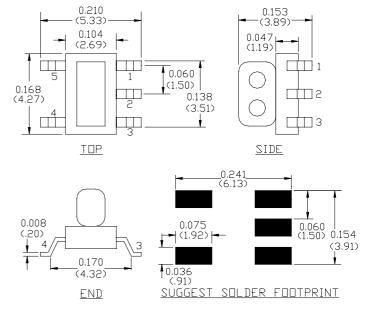
Part Number	Package
MABA-007532- CF18A0TR	2000 piece reel
MABA-007532-CF18TB	Customer Test Board

Note: Reference Application Note $\boldsymbol{M513}$ for reel size information.

Schematic



Case Style: SM-138



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

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- 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.

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



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Electrical Specifications: $T_A = 25$ °C, $Z_0 = 75\Omega^{1}$

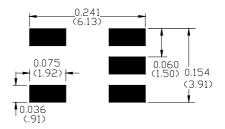
Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
Insertion Loss	-	5 - 50 MHz	dB	-	0.3	0.5
Amplitude Unbalance (Nominal 0dB)	-	5 - 50 MHz	dB	-	0.04	±0.10
Phase Unbalance (Nominal 180°)	-	5 - 50 MHz	0	-	0.3	±2.0
Input Return Loss	=	5 - 50 MHz	dB	20	25	-

Absolute Maximum Ratings ^{1,2}

Parameter	Absolute Maximum		
Max Input Power	250mW		
DC current	240mA		
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.

Recommended PCB Configuration



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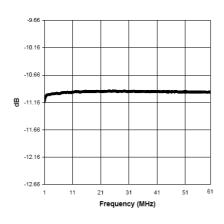
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1:1 Flux Coupled Transformer 5-50 MHz

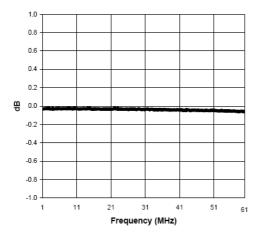
Typical Performance Curves

Insertion Loss 1: (Pin 5 to 1)

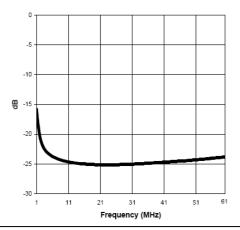
Insertion Loss (reference value -10.66dB)



Amplitude Unbalance

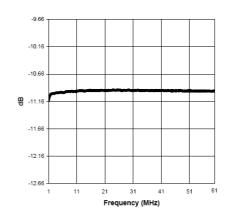


Input Return Loss

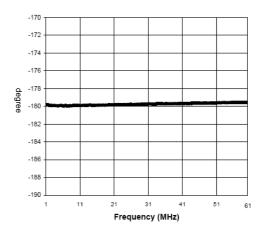


Insertion Loss 2: (Pin 5 to 3)

Insertion Loss (reference value -10.66dB)



Phase Balance



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