

RoHS Compliant



2.56:1 Impedance Ratio Center Tapped Transformer 5-65 MHz

MABA-007902-CF38A0 V1P

Features

- Surface Mount
- 2.56:1 Impedance
- 260°C Reflow Compatible
- RoHS* Compliant
- RoHS version of MABAES0017
- Available on Tape and Reel. Reel quantity 2000

Description

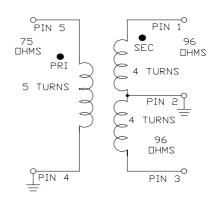
M/A-COM's MABA-007902-CF38A0 is a 2.56:1 RF flux coupled step up transformer in a low cost, surface mount package. Ideally suited for high volume CATV/Broadband applications.



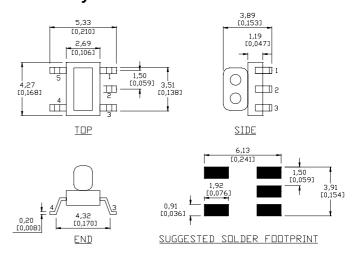
Pin Configuration

Pin No.	Function		
1	Secondary Dot		
2	Centre Tap		
3	Secondary		
4	Primary		
5	5 Primary Dot		

Schematic



Case Style: SM-138



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

Ordering Information

Part Number	Package		
MABA-007902-CF38A0	2000 piece reel		
MABA-007902-CF38TB	Customer Test Board		

Note: Reference Application Note M513 for reel size information.

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

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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



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

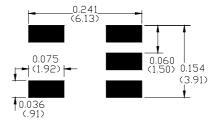
Parameter	Test Conditions	Units	Min	Тур	Max
Insertion Loss	5 - 65 MHz	dB	-	0.8	1.0
Amplitude Unbalance (Nominal 0dB)	5 - 65 MHz	dB	-	±0.02	±0.1
Phase Unbalance (Nominal 180°)	5 - 65 MHz	0	-	±0.2	±1.0

Absolute Maximum Ratings ^{1,2}

Parameter	Absolute Maximum		
RF Power	250mW		
DC current	30mA		
Operating Temperature	-40°C to +85°C		
Storage Temperature	-40°C to +85°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



²

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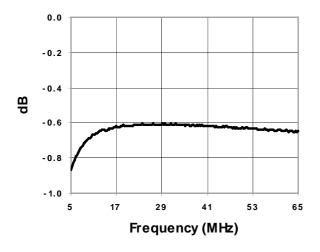
V₁P

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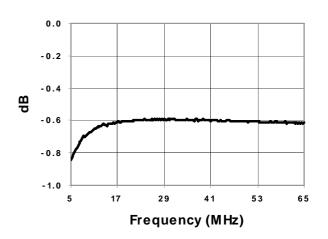
2.56:1 Impedance Ratio Center Tapped Transformer 5-65 MHz

Typical Performance Curves: $T_A = 25^{\circ}C$, $Z_0 = 75\Omega$

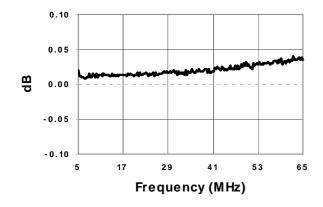
Insertion Loss 1 (pin 5 to pin 3)



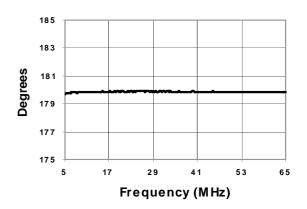
Insertion Loss 2 (pin 5 to pin 1)



Amplitude Unbalance



Phase Balance



³

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