

E-Series 1:4 RF Flux Coupled Transformer 5.0-200 MHz

Rev. V3

Features

- 1:4 Impedance
- CT on Secondary
- Surface Mount
- Available on Tape and Reel.

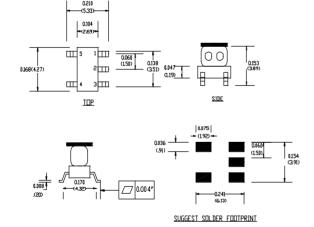
Description

M/A-COM's MABACT0018 is a 1:4 RF flux coupled step-up transformer in a low cost, surface mount package. Ideally suited for high volume cellular & wireless applications. Typical applications include single to balance mode conversion and impedance matching.

Ordering Information

Part Number	Package	
MABACT0018	2000 piece reel	

Case Style: SM-138-A



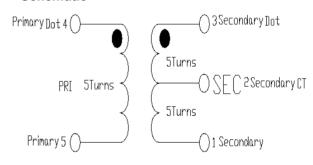
Dimensions in inches [mm].

Tolerance where not specified: .xx \pm .02, .xxx \pm .010

Product Image



Schematic



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

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Electrical Specifications: $T_A = 25$ °C

Parameter	Frequency (MHz)	Units	Тур	Min	Max
Frequency Range	5 - 65 65 - 200	-		- -	-
Insertion Loss	5 - 65 65 - 200	dB dB	0.4 0.9		0.7 1.5
Amp Balance	5 - 65 65 - 200	dB dB	0.02 0.20	-	0.1 0.5
Phase Balance	5 - 65 65 - 200	Deg Deg	0.4 2.0		2.0 8.0
Input Return Loss	5 - 65 65 - 200	dB dB	22.0 11.0	15.0 7.0	-

Absolute Maximum Ratings ^{1,2}

Parameter	Absolute Maximum		
RF Power	50 mW		
Peak IF Current	200 mA		
Storage Temperature	-40° to +85° C		
Operating Temperature	-40° to +85° C		
Pin Temp. (10sec)	260°C		

^{1.} Exceeding any one or combination of these limits may cause permanent damage to this device.

^{2.} M/A-COM does not recommend sustained operation near these survivability limits.

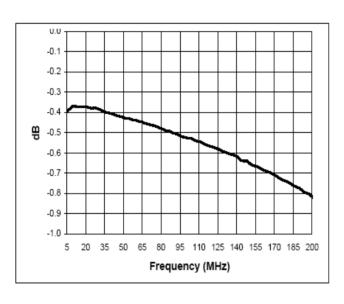


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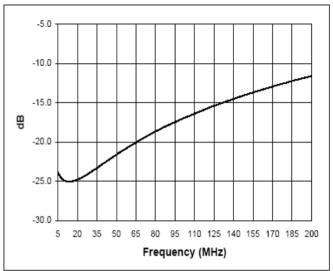
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Typical Performance Curves at +25°C

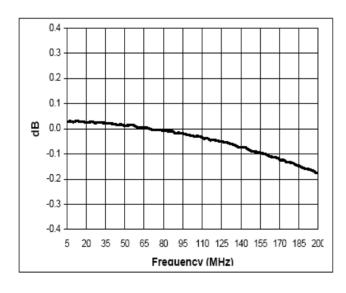
Insertion Loss



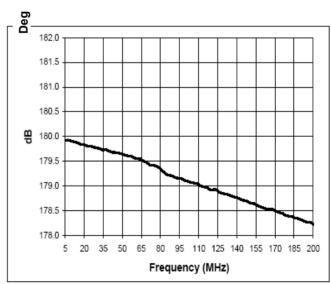
Input Return Loss



Amplitude Unbalance



Phase Unbalance



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