MABACT0018

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

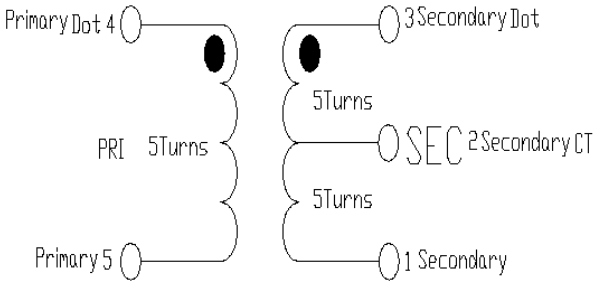
M/A-COM's MABACT0018 is a 1:4 RF flux coupled step-up transformer in a low cost, surface mount package. Ideally suited for high volume cellular & wireless applications. Typical applications include single to balance mode conversion and impedance matching.

Ordering Information

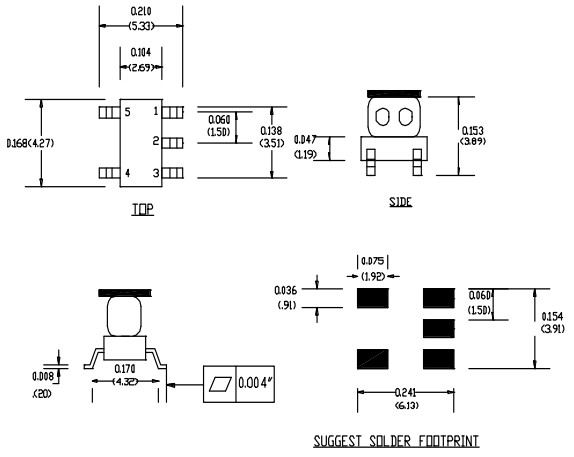
Part Number	Package
MABACT0018	2000 piece reel

Product Image

Schematic



Case Style: SM-138-A



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

Dimensions in inches [mm].
Tolerance where not specified: .xx ± .02, .xxx ± .010

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Electrical Specifications: T_A = 25°C

Parameter	Frequency (MHz)	Units	Typ	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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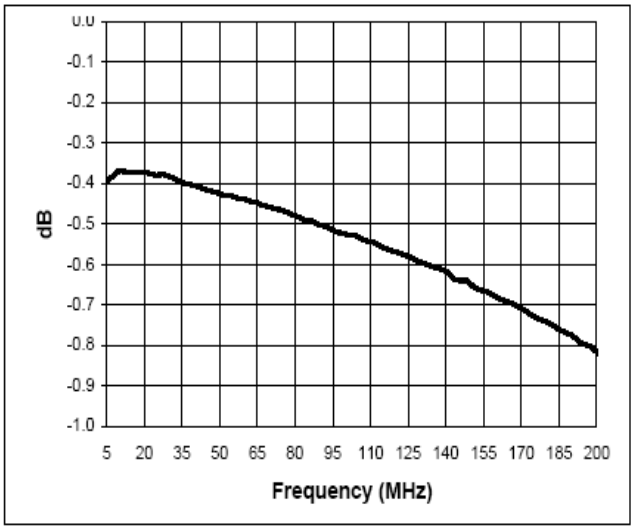
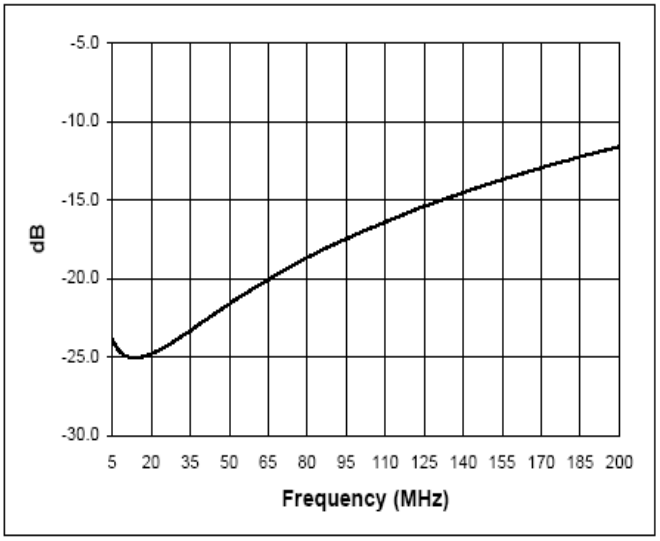
Typical Performance Curves at +25°C

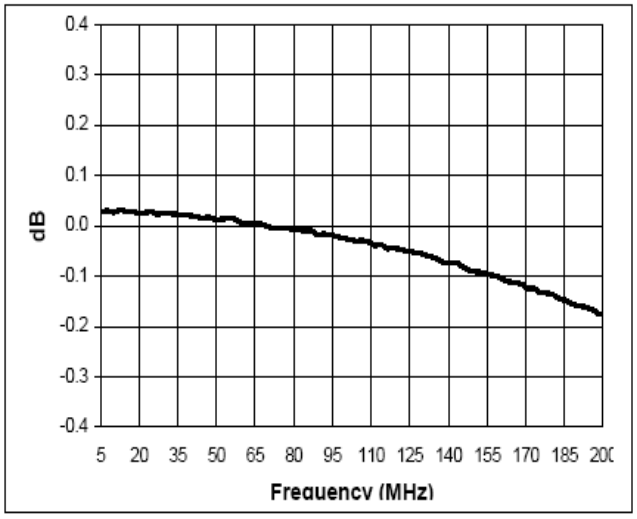
Insertion Loss



Input Return Loss



Amplitude Unbalance



Phase Unbalance