



E-Series RF 1:4 Flux Coupled Step-up Transformer 2.0 – 800 MHz

MABAES0010 V2

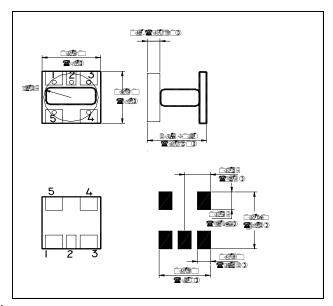
Features

- 1:4 Impedance Ratio
- Surface Mount
- · CT on Secondary
- Tape and reel packaging available

Description

M/A-COM's MABAES0010 is a 1:4 RF flux coupled step-up transformer in a low cost, surface mount package. Ideally suited for high volume cellular and wireless applications. Typical applications include single to balanced mode conversion and impedance matching.

SM - 119 Package



Electrical Specifications: $T_A = 25^{\circ}C$, $Z_0 = 50\Omega^{1}$

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
RF Frequency	_	2.0 - 800	MHz	_	_	_
Insertion Loss	F _L —f _U	10 - 100 5 - 600 2 - 800	dB dB dB	_ _ _		2.0 2.2 3.0
Amplitude Unbalance	_	10 - 100 2– 800	dB dB	_	_	0.25 1.3
Phase Imbalance	_	10 - 500 2 - 800	Degrees Degrees	_	_	3.0 10.0

Absolute Maximum Ratings ¹

Parameter	Absolute Maximum		
DC Power	250 mW		
DC Current	30 mA		
Operating Temperature	-40°C to +85°C		
Storage Temperature	-55°C to +125°C		

Operation of this device above any one of these parameters may cause permanent damage.

Ordering Information

Part Number	Package	
MABAES0010	Tape and Reel (2000 piece Reel)	

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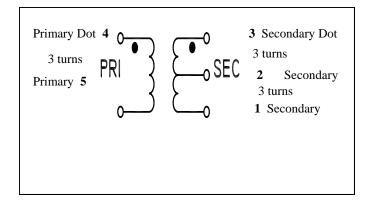
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Pin Configuration

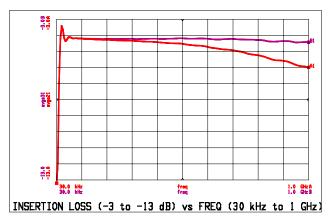
Pin No.	Function
1	Secondary
2	Secondary CT
3	Secondary Dot
4	Primary Dot
5	Primary

Schematic

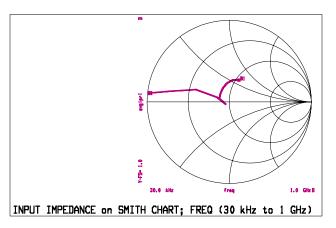


Typical Performance Curves

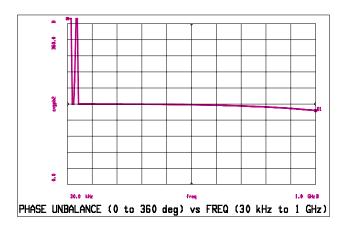
Insertion Loss



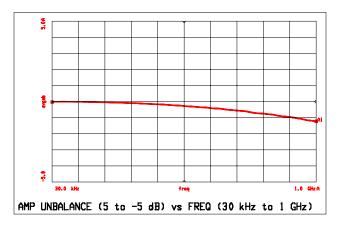
Input Impedance



Phase Unbalance



Amplitude Unbalance



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