MABAES0061



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

Rev. V5

Features

- Surface Mount
- 1:4 Impedance Ratio
- · CT on Secondary
- RoHS* Compliant version of the ETC4-1-2
- Tape and reel packaging available

Description

M/A-COM's MABAES0061 is a RoHS compliant device that is equivalent to the ETC4-1-2 transformer. This device 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. The MABAES0061 transformer is offered in an SM-22 surface mount package and is designed to be utilized in both standard reflow and high temperature soldering reflow profiles.

Image



Ordering Information

Part Number	Package
MABAES0061	Tape and Reel (2000 piece reels)

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

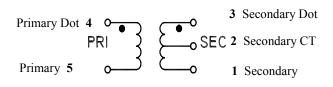
Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
Frequency Range	_	2 — 800	MHz	_	_	_
Insertion Loss (f _L - f _U)	_ _ _	10 - 100 MHz 5 - 600 MHz 2 - 800 MHz	dB dB dB		 1.21 	1.0 2.0 3.0
Amplitude Unbalance	_	10 - 100 MHz 2 - 800 MHz	dB dB		_	0.25 1.0
Phase Unbalance		10 - 500 MHz 2 - 800 MHz	Degrees Degrees	_	_	2.0 10.0

Pin Configuration

Commitment to produce in volume is not guaranteed.

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

Schematic



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PRELIMINARY: Data Sheets contain information regarding a product M/A-COM Technology Solutions has under development. Performance is based on engineering tests. Specifications are typical. Mechanical outline has been fixed. Engineering samples and/or test data may be available.

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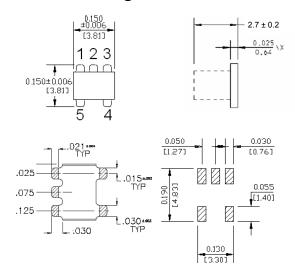
Rev. V5

Absolute Maximum Ratings ^{1,2}

Parameter	Absolute Maximum		
RF Power	250 mW		
DC Current	240 mA ²		
Operating Temperature	-40°C to +85°C		
Storage Temperature	-55°C to +125°C		

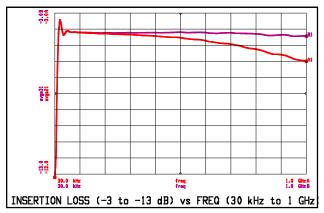
- 1. Operation of this device above any one of these parameters may cause permanent damage.
- The maximum DC current applies to the secondary center tap in applications where the secondary is balanced.

Outline Drawing — SM-22



Typical Performance Curves Over Extended Bandwidth (30KHz - 1.0GHz)

Insertion Loss

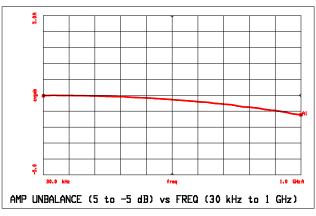


Phase Unbalance

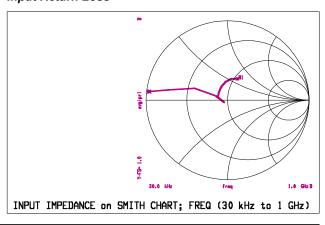


Amplitude Unbalance

Commitment to produce in volume is not guaranteed.



Input Return Loss



2

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