

RoHS Compliant



E-Series RF 1:4 Flux Coupled Step-up Transformer 1 — 350 MHz

MABA-007237-ETC410 V2 P

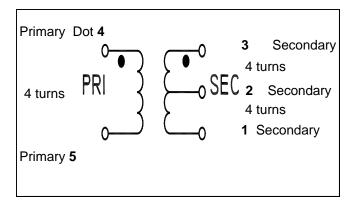
Features

- Surface mount
- · Wide frequency range
- 1:4 Impedance Ratio
- CT on Secondary
- Lead Free
- RoHS* Compliant and is 260°C reflow compatible.
- Available on Tape and Reel, reel quantity 2000

Description

M/A-COM's MABA-007237-ETC410 is a RoHS compliant 1:4 RF flux coupled step-up transformer in a low cost, surface mount package. Ideally suited for high volume cellular and wireless applications. Parts are packaged in tape & reel.

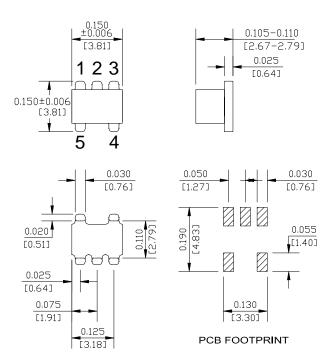
Schematic



Pin Configuration

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

SM-22 package



Ordering Information

Part Number	Package
MABA-007237-ETC410	2000 piece reel

Note: Reference Application Note M513 for reel size information.

Absolute Maximum Ratings ^{1,2}

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		

- 1. 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.

This PRELIMINARY Data Sheet contains information regarding a product M/A-COM has under development. Performance is based on measured results and target specifications. Commitment to produce in volume is not guaranteed.

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

- 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

M/A-COM Inc. and its affiliates reserve the right to make changes to the product(s) or information contained herein without notice. M/A-COM makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does M/A-COM assume any liability whatsoever arising out of the use or application of any product(s) or information.



RoHS Compliant



E-Series RF 1:4 Flux Coupled Step-up Transformer 1 — 350 MHz

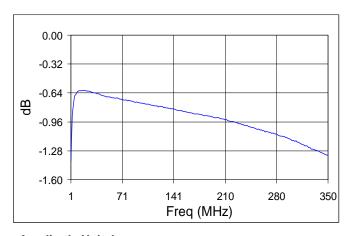
MABA-007237-ETC410

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

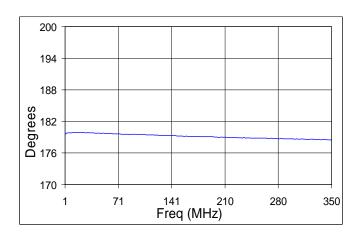
Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
RF Frequency	_	1 - 350	MHz	_	_	_
Insertion Loss	F _L —f _U	5 - 100 2 - 300 1 - 350	dB dB dB	_ _ _	1.21 —	1.0 2.0 3.0
Amplitude Unbalance	_	5 - 100 1 - 350	dB dB	_	_	0.1 0.5
Phase Unbalance	_	5 - 100 1 - 350	Degrees Degrees	_	_	1.0 5.0

Typical Performance Curves

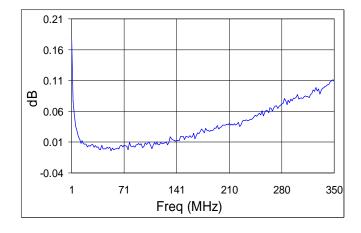
Insertion Loss



Phase Unbalance



Amplitude Unbalance



[•] 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