



E-Series RF 1:4 Transmission Line Step-up Transformer 6 -1000 MHz

MABA-008639-TC41T7

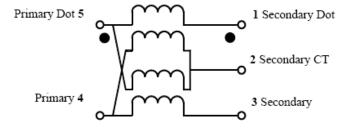
Features

- Surface mount
- 1:4 Impedance Ratio
- RoHS* Compliant and is 260°C reflow compatible.
- Available on Tape and Reel, reel quantity 2000

Description

M/A-COM's MABA-008639-TC41T7 is a RoHS compliant 1:4 RF transformer in a low cost, surface mount package. MABA-008639-TC41T7 is a wire welded RoHS version of ETC4-1T-7. Ideally suited for high volume cellular and wireless applications. Typical applications include single to balanced mode conversion and impedance matching.

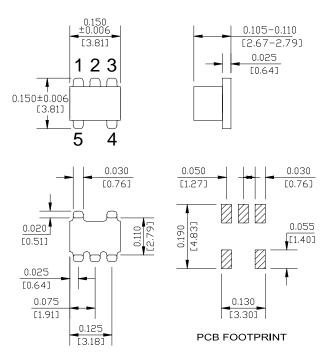
Schematic



Pin Configuration

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

SM-22 package



Ordering Information

Part Number	Package	
MABA-008639-TC41T7	2000 piece reel	

Note: Reference Application Note M513 for reel size information.

Absolute Maximum Ratings 1,2

Parameter	Absolute Maximum
RF Power	250 mW
DC Current	30 mA
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +100°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.

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

North America Tel: 800.366.2266 • Europe Tel: +353.21.244.6400

[•] India Tel: +91.80.4155721 Visit www.macomtech.com for additional data sheets and product information.

[•] China Tel: +86.21.2407.1588





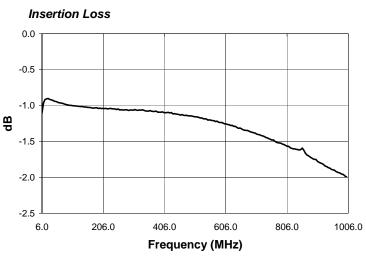
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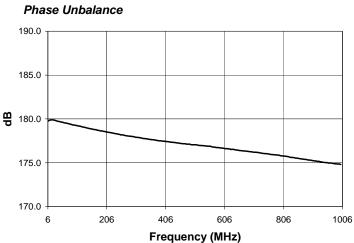
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Electrical Specifications: $T_A = 25^{\circ}C$, $Z_0 = 50\Omega^{1}$

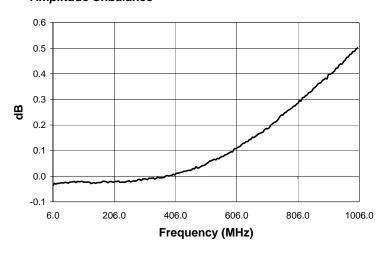
Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
RF Frequency	_	6 - 1000	MHz	_	_	_
Insertion Loss	F _L —f _U	6 - 600 600 - 1000	dB		_	2.0 3.0
Amplitude Unbalance	F _L —f _U	6 - 1000	dB	_	_	1.0
Phase Unbalance	F _L —f _U	6 - 1000	Degrees	ı	_	10

Typical Performance Curves





Amplitude Unbalance



ADVANCED: Data Sheets contain information regarding a product M/A-COM Technology Solutions is considering for development. Performance is based on target specifications, simulated results, and/or prototype measurements. Commitment to develop is not guaranteed.

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.

Commitment to produce in volume is not guaranteed.

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