MABA-007236-C16423



E-Series RF 1:4 Transmission Line Step-up Transformer 500 — 3000 MHz

Rev. V6

Features

- Surface mount
- Wide frequency range
- 1:4 Impedance Ratio
- CT on Secondary
- Pb Free
- RoHS* version of ETC1.6-4-2-3
- 260°C reflow compatible.

Description

M/A-COM Technology Solutions MABA-007236-C16423 is a RoHS compliant 1:4 RF transmission line 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. Parts are packaged in tape & reel.

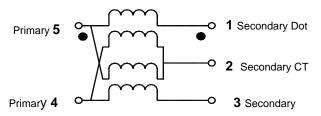


Pin Configuration

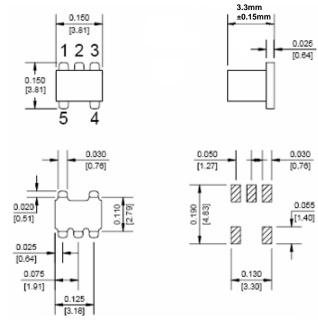
Commitment to produce in volume is not guaranteed.

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

Schematic



Case Style



Dimensions in inches [mm] Tolerance: .xx ± .02, .xxx ± .010, unless otherwise stated

Recommended Maximum Ratings 1,2

Parameter	Value
DC Power	250 mW
DC Current	50 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.
- 2. M/A-COM Technology Solutions does not recommend sustained operation near these survivability limits.

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.

• North America Tel: 800.366.2266 • Europe Tel: +353.21.244.6400

• India Tel: +91.80.43537383

• China Tel: +86.21.2407.1588

Visit www.macomtech.com for additional data sheets and product information.

MABA-007236-C16423



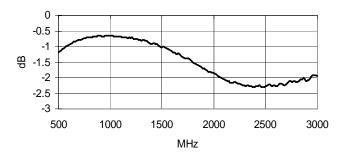
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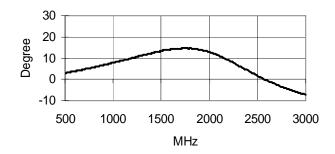
Electrical Specifications: $T_A = 25^{\circ}C$, $Z_0 = 50\Omega^{1}$

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
RF Frequency	_	500 - 3000	MHz	_		_
Insertion Loss	F _L —f _U	500 - 700 700 - 1200 1200 - 3000	dB dB dB	_ _ _		2.0 1.0 3.0

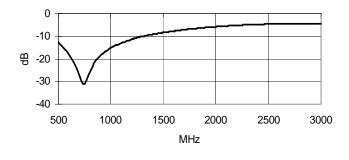
Insertion Loss



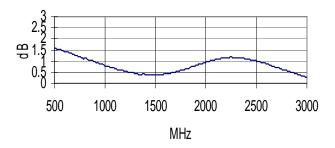
Phase Unbalance



Input Return Loss



Amplitude Unbalance



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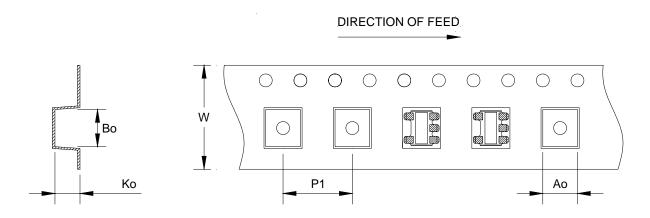
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Tape & Reel Information



Item	Dimension		
Ao	4.10mm +/- 0.1mm		
Во	4.20mm +/- 0.1mm		
Ko	3.40mm +/- 0.1mm		
W	12.00mm +/- 0.3mm		
P1	8.00mm +/- 0.1mm		

Ordering Information

Part number	Description
MABA-007236-C16423	2000 piece reel

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