MABA-009711-ETK2MM



E-Series RF 1:4 Transmission Line Step-up Transformer 2-1000 MHz

M/A-COM Products

Features

- 1:4 Impedance Ratio
- Surface Mount
- Wide frequency range
- Tape and reel packaging available
- 260°C Reflow Compatible
- **RoHS*** compliant

Description

M/A-COM's MABA-009711-ETK2MM is a RoHS compliant 1:4 RF transmission line transformer in a low cost, surface mount package. The windings of the MABA-009711-ETK2MM are welded to the package substrate for improved reliability and to eliminate lead content. Ideally suited for high volume cellular and wireless application. Parts are packaged in tape & reel.

Ordering Information

Part Number	Package
MABA-009711-ETK2MM	Tape and Reel (2000 piece Reel)

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

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
RF Frequency	-	2.0 - 1000	MHz	-	-	-
Insertion Loss	-	3.0 - 500 2.0 - 700 2.0 - 1000	dB dB dB	- -	0.7 - -	1.0 2.0 3.0
Amplitude Unbalance	-	2.0 - 1000	dB	-	-	0.3
Phase Unbalance	-	2.0 - 1000	Degrees	-	-	10
Input Return Loss	-	0.1 - 200	dB	28	15	8

Pin Configuration

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

Absolute Maximum Ratings^{1,2}

1

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. 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.

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.

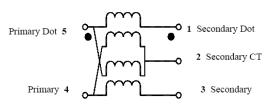
PRELIMINARY: Data Sheets contain information regarding a product M/A-COM Technology Solutions has under development. Performance is based on engineering tests. Specifications are typical. Mechanical outline has been fixed. Engineering samples and/or test data may be available. Commitment to produce in volume is not guaranteed.

www.BD

Schematic

COM/

Product Image



• North America Tel: 800.366.2266 • Europe Tel: +353.21.244.6400 • India Tel: +91.80.4155721 • China Tel: +86.21.2407.1588 Visit www.macomtech.com for additional data sheets and product information.

M/A-COM Technology Solutions Inc. and its affiliates reserve the right to make changes to the product(s) or information contained herein without notice.

Advanced - Rev. V1

MABA-009711-ETK2MM

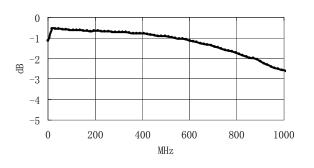


E-Series RF 1:4 Transmission Line Step-up Transformer 2-1000 MHz

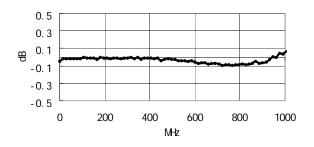
M/A-COM Products Advanced - Rev. V1

Typical Performance Curves at +25°C

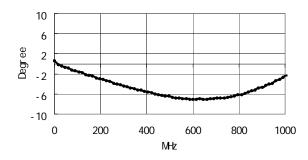
Insertion Loss



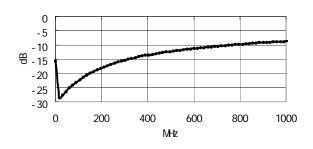
Amplitude Balance



Phase Balance



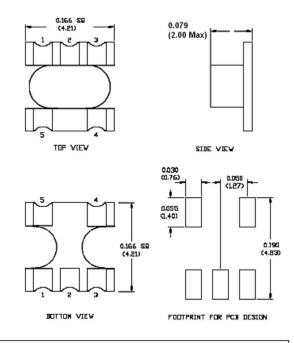
Input Return Loss



2

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.

SM-164B Case Style



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

North America Tel: 800.366.2266
Europe Tel: +353.21.244.6400
India Tel: +91.80.4155721
 China Tel: +86.21.2407.1588
Visit www.macomtech.com for additional data sheets and product information.

M/A-COM Technology Solutions Inc. and its affiliates reserve the right to make changes to the product(s) or information contained herein without notice.

www.BDTIC.com/MACOM