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



Features

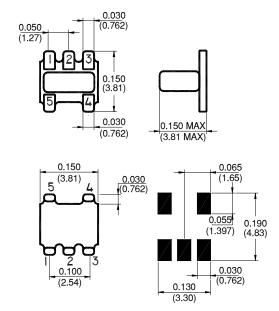
- Surface Mount
- 1:4 Impedance Ratio
- · CT on Secondary
- Available on Tape & Reel



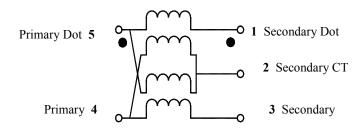
Description

M/A-COM's ETK4-2T is a 1:4 RF transmission line step-up transformer in a low cost, surface mount package. Ideally suited for high volume applications.

SM-22 Package



Schematic



Electrical Specifications @25°C

Parameter		Units	Nominal	Typical	Minimum	Maximum
Frequency Range	2 - 1000	MHz	_	_	_	_
Insertion Loss	5 - 250 MHz	dB	_	_	_	1.0
	3 - 500 MHz	dB	_	_	_	2.0
	2.5 - 700 MHz	dB	_	_	_	3.0
	2.0 -1000MHz	dB	_	_	_	4.0
Amplitude Imbalance	2 - 300 MHz	dB	_	_	_	0.3
	300 - 1000 MHz	dB	_	_	_	2.0
Phase Imbalance	2 - 300MHz	Degrees	_	_	_	5.0
	300 - 1000MHz	Degrees	_	_	_	20

Please Note that the photograph above indicates typical package only, not actual unit.

V3.00 S 0967 D

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

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.

M/A-COM Technology

M/A-COM Technology

North America Tel: 800.366.2266
 India Tel: +91.80.43537383
 Visit www.macomtech.com for additional data sheets and product information.

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

Absolute Maximum Ratings

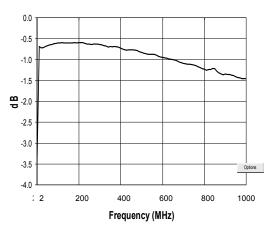
Parameter	Absolute Maximum		
RF Power	250 mW		
DC Current	30 mA		
Operating Temperature	-40°C to +85°C		
Storage Temperature	-55°C to 100°C		

Functional Configuration

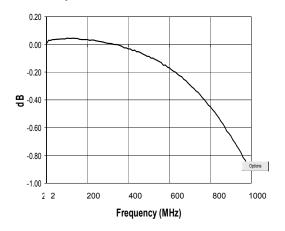
Function	Pin No.		
Primary Dot	5		
Primary	4		
Primary CT	_		
Secondary Dot	1		
Secondary	3		
Secondary CT	2		
Case Ground	_		
Not Connected	_		

Typical Performance @ +25°C

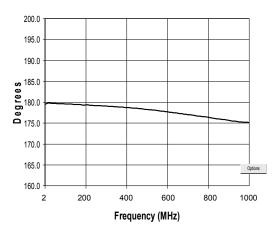
Insertion Loss



Amplitude Imbalance



Phase Imbalance



V3.00 S 0967 D

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.

India Tel: +91.80.43537383
 China Tel: +86.21.2407.1588
 Visit www.macomtech.com for additional data sheets and product information.

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

M/A-COM Technology Solutions (n.g. ancilts affiliates reserve the right to make of anges to the propuls (so or information sontained herein without notice.