ETC16-1T-2TR



E-Series RF 1:16 Transformer 5-40 MHz

M/A-COM Products Advanced - Rev. V2

Features

- 1:16 Impedance Ratio
- CT on Secondary
- Surface Mount
- Tape and reel packaging available
- 260°C Reflow Compatible

Description

M/A-COM's ETC16-1T-2TR is a 1:16 RF 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.

The ETC16-1T-2TR is available in a SM-22 surface mount package. Parts are packaged in tape & reel.

Ordering Information

Part Number	Package
ETC16-1T-2TR	Tape and Reel (2000 piece Reel)

Product Image



Electrical Specifications: $T_A = 25$ °C, $Z_0 = 50\Omega$

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
RF Frequency	_	5 - 40	MHz	_	_	
Insertion Loss	_	5 - 40 22	dB dB	_	_	1.0 0.8
Amplitude Imbalance	_	5 - 40	dB	_	_	0.3
Phase Imbalance	_	5 - 40	Degrees	_	_	3

Pin Configuration

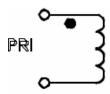
Pin No.	Function		
1	Secondary		
2	Secondary CT		
3	Secondary Dot		
4	Primary Dot		
5	Primary		

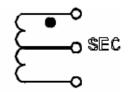
Absolute Maximum Ratings

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.

Schematic





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.

• 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

ETC16-1T-2TR

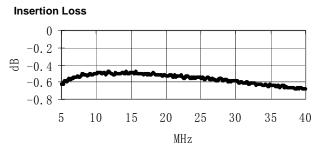


E-Series RF 1:16 Transformer 5-40 MHz

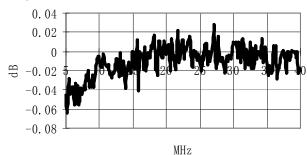
M/A-COM Products Advanced - Rev. V2

Typical Performance Curves at +25°C

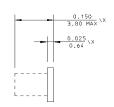
SM - 22 Package

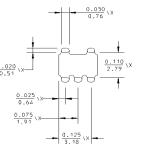


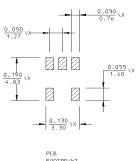
Amplitude Balance



0.150 \X 1 2 3 0.150\Y



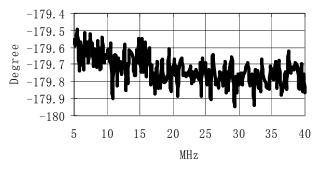




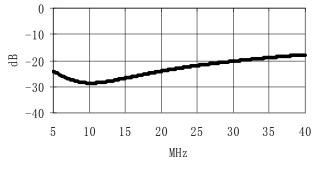
Dimensions are inches (millimeters) ±0.015 (0.38) unless otherwise specified.

SM-22

Phase Balance



Input Return Loss



- 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.

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.

ADVANCED: Data Sheets contain information regarding a product M/A-COM Technology Solutions

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.