

ETC1-1T-2TR



E-Series RF 1:1 Transformer
0.1 – 200 MHz

Rev. V1

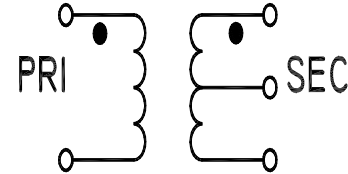
Features

- 1:1 Impedance Ratio
- Surface Mount
- Tape and reel packaging available

Description

M/A-COM's ETC1-1T-2 is a 1:1 RF transformer in a low cost, surface mount package. Typical applications include single to balanced mode conversion and impedance matching. Parts are packaged in tape & reel.

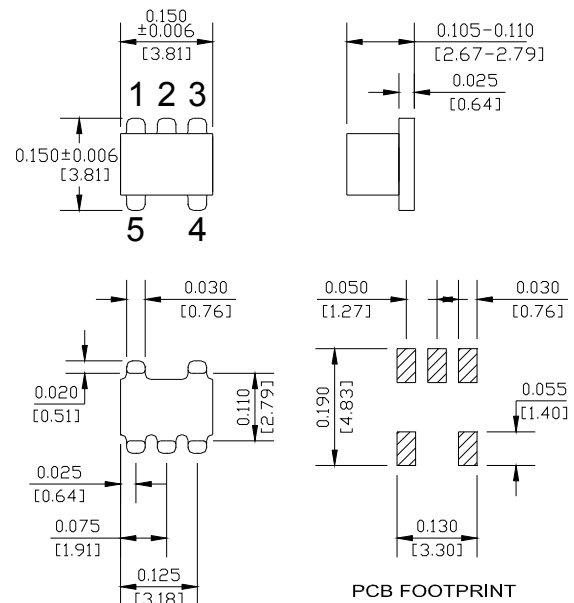
Schematic



Product Image



SM-22 package



Pin Configuration

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

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

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

Parameter	Test Conditions	Frequency	Units	Min	Typ	Max
RF Frequency	—	0.1 - 200	MHz	—	—	—
Insertion Loss	—	0.1 - 200	dB	—	0.3	1.5
Amplitude Imbalance	—	0.1 - 200	dB	—	—	0.5
Phase Imbalance	—	0.1 - 200	Degrees	—	—	5°

Absolute Maximum Ratings ¹

Parameter	Absolute Maximum
RF Power	250 mW
DC Current	30 mA
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +125°C

1. Operation of this device above any one of these parameters may cause permanent damage.

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.

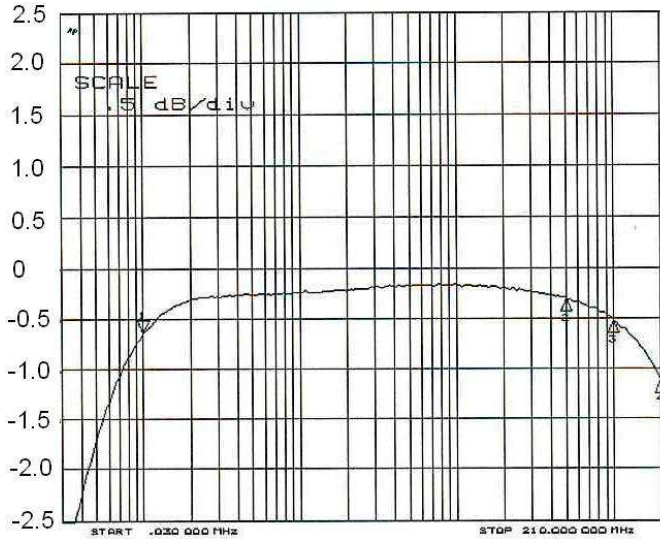
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Visit www.macontech.com for additional data sheets and product information.

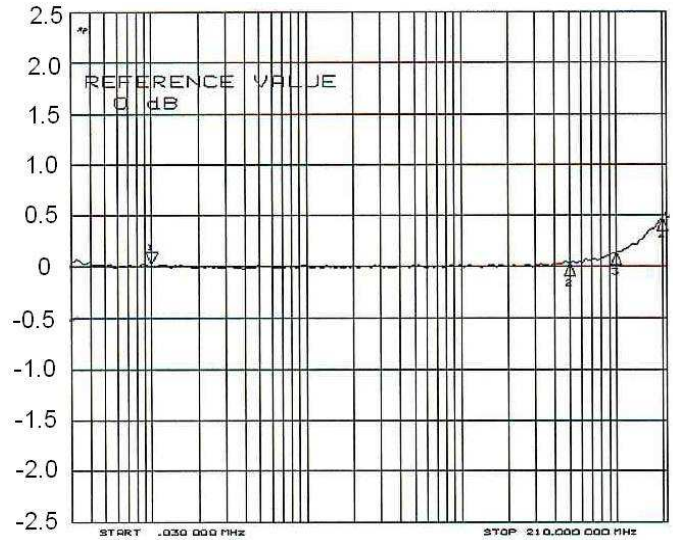
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Typical Performance Curves

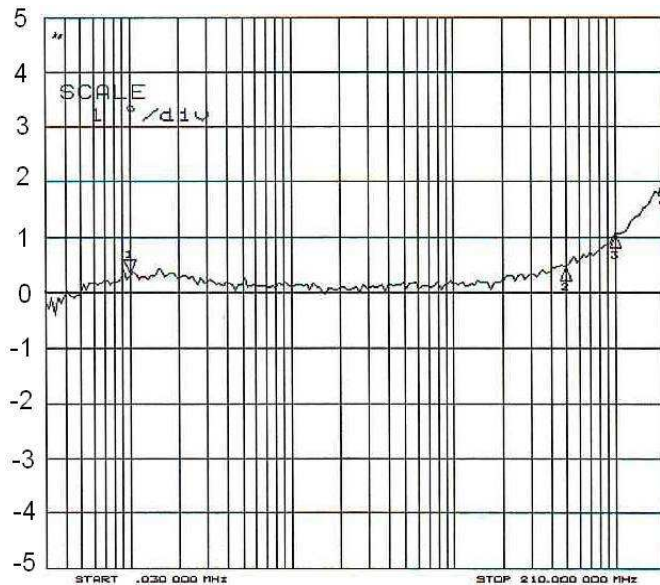
Insertion Loss



Amplitude Unbalance



Phase Unbalance



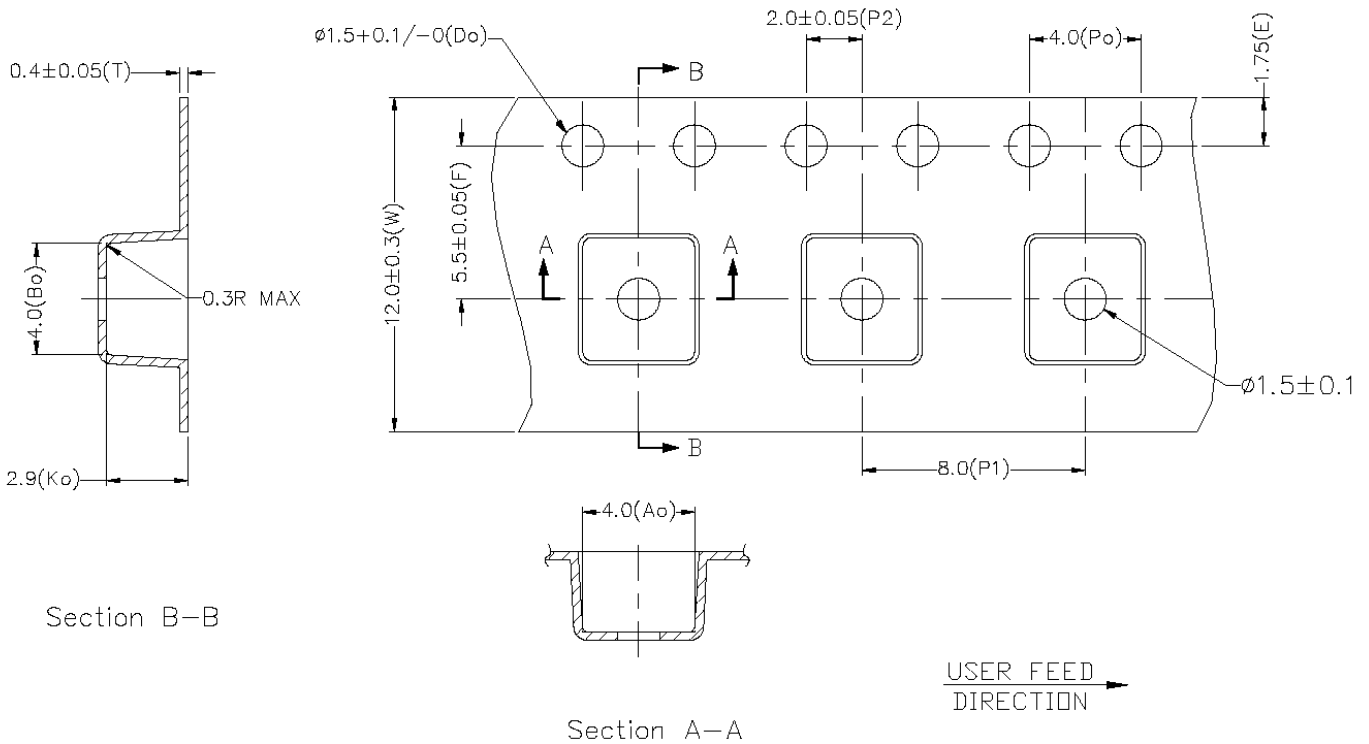
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Tape & Reel Information



Item	Dimension
Ao	4.00mm +/-0.1mm
Bo	4.00mm +/-0.1mm
Ko	2.9mm +/-0.1mm
W	12.00mm +/-0.3mm
P1	8.00mm +/-0.1mm

Ordering Information

Part Number	Package
ETC1-1T-2TR	2000 piece reel

1. Reference Application Note M513 for reel size information.
2. All sample boards include 5 loose parts.