

Features

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Technical drawings of the 1000 Series 1/2" components, showing front, side, and detail views with dimensions in inches and millimeters.

Top View (Left): Dimensions include 0.050 (1.27) for the top width, 0.030 (0.762) for the top thickness, 0.150 (3.81) for the central width, 0.030 (0.762) for the central thickness, and 0.100 (2.54) for the bottom width. Features are numbered 1 through 5.

Side View (Right): Dimensions include 0.150 MAX (3.81 MAX) for the side width.

Bottom View (Left): Dimensions include 0.150 (3.81) for the bottom width, 0.030 (0.762) for the bottom thickness, and 0.100 (2.54) for the bottom width. Features are numbered 1 through 5.

Detail View (Right): Dimensions include 0.065 (1.65) for the detail width, 0.055 (1.397) for the detail height, 0.190 (4.83) for the detail width, 0.030 (0.762) for the detail thickness, and 0.130 (3.30) for the detail width.

M/A-COM's ETC1-1T-5 is a 1:1 RF transformer in a low cost, surface mount package. Ideally suited for high volume cellular wireless applications. Typical applications include single to balanced mode conversion and impedance matching.

Parameter	Units	Typical	Minimum	Maximum
Frequency Range 2 - 500	MHz	—	—	—
Insertion Loss ($f_L - f_U$)				
2 - 500 MHz	dB	—	—	2.0
2 - 300 MHz	dB	—	—	1.0
Amplitude Imbalance				
2 - 300 MHz	dB	—	—	0.3
2 - 500 MHz	dB	—	—	0.6
Phase Imbalance				
2 - 300 MHz	°	—	—	2.0°
2 - 500 MHz	°	—	—	5.0°

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: +91.80.43537383 • **China** Tel: +86.21.2407.1588
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Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Power	250 mW
DC Current	30 mA
Operating Temperature	-20°C to +85°C
Storage Temperature	-20°C to +85°C

Functional Configuration

Function	Pin No.
Secondary Dot	3
Secondary CT	—
Secondary	1
Primary	5
Primary Dot	4
Primary CT	—
Not Connected	2

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