



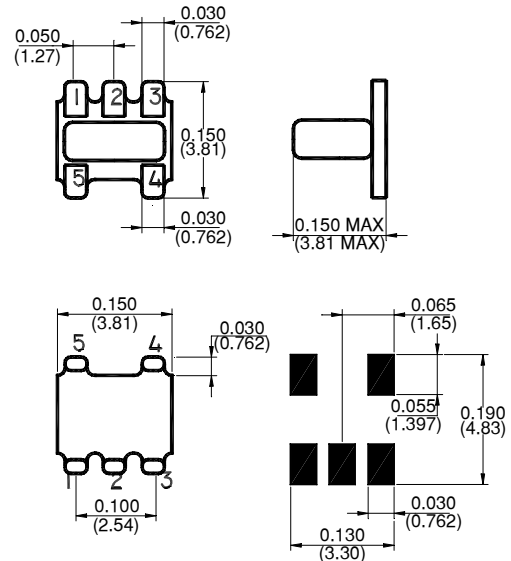
## E-Series RF 1:1 Transformer 2– 500 MHz

### Features

- Surface Mount
- 1:1 Impedance Ratio



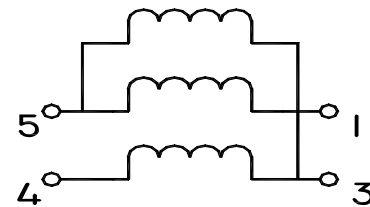
### SM-22 Package



### Description

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.

### Schematic



### Electrical Specifications @25°C

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.

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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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