

## E-Series RF 1:1 Transformer 1710 – 1910 MHz

V1

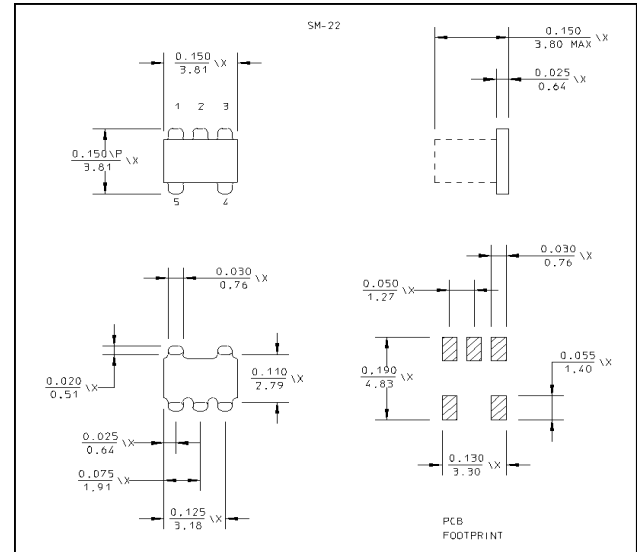
### Features

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

### Description

M/A-COM's ETC1-1-10 is a 1:1 RF transmission line transformer in a low cost, surface mount package. Ideally suited for high volume cellular and wireless applications. Parts are packaged in tape & reel.

### SM - 22 Package



### Electrical Specifications: $T_A = 25^\circ\text{C}$ , $Z_0 = 50\Omega$ <sup>1</sup>

Parameter	Test Conditions	Frequency	Units	Min	Typ	Max
RF Frequency	—	1710 - 1910	MHz	—	—	—
Insertion Loss	$F_L - f_U$	1710 - 1910	dB	—	—	2.0
Amplitude Unbalance	—	1710 - 1910	dB	—	—	2.0
Phase Unbalance	—	1710 - 1910	Degrees	—	—	10°

### Absolute Maximum Ratings<sup>1</sup>

Parameter	Absolute Maximum
DC 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.

### Ordering Information

Part Number	Package
ETC1-1-10TR	Tape and Reel (2000 piece Reel)

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**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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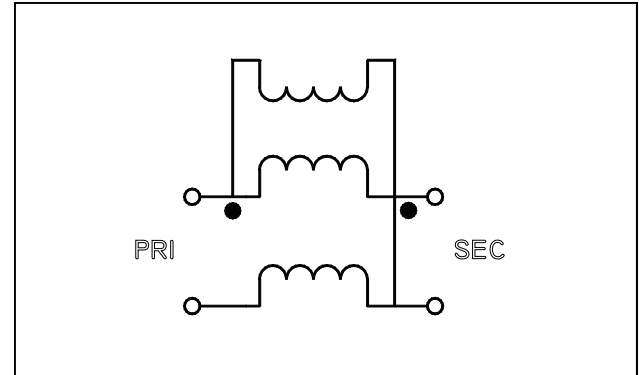
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### Pin Configuration

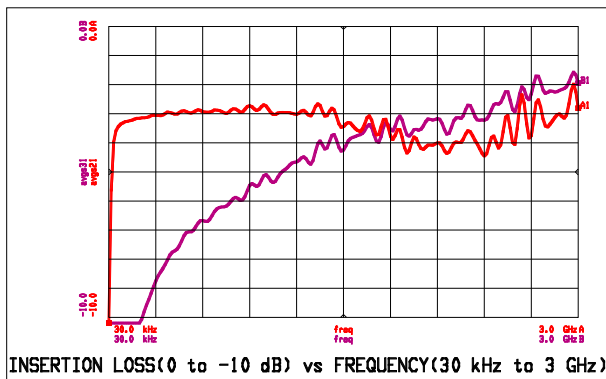
Pin No.	Function
1	Secondary Dot
2	Not Connected
3	Secondary
4	Primary
5	Primary Dot

### Schematic

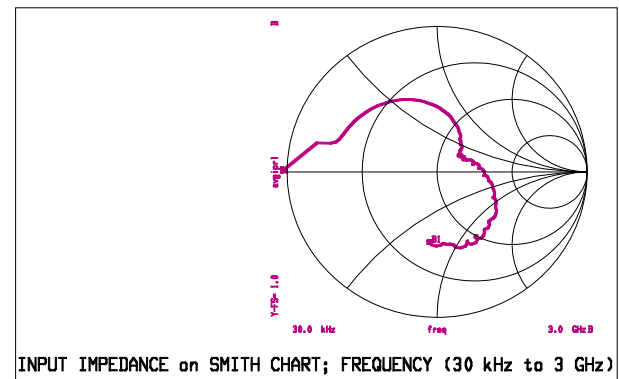


### Typical Performance Curves

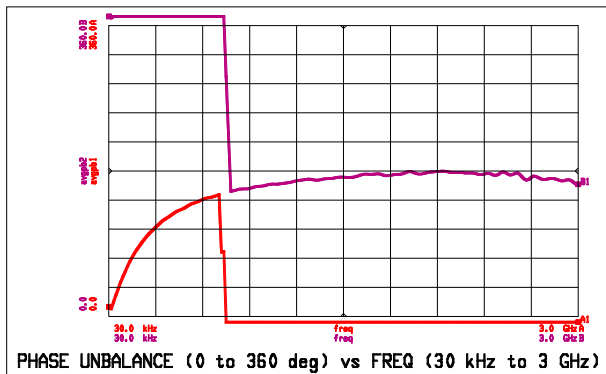
#### Insertion Loss



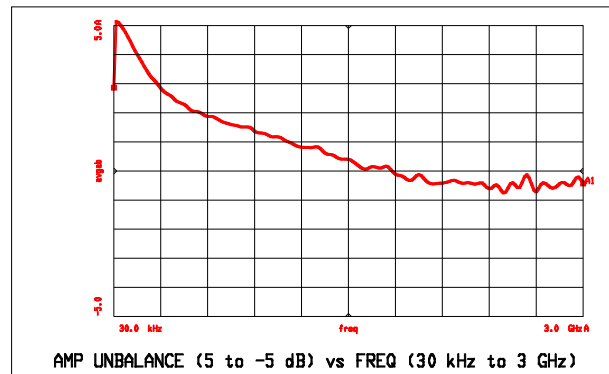
#### Input Impedance



#### Phase Unbalance



#### Amplitude Unbalance



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