



# E-Series RF 1:9 Transformer 10 – 75 MHz

ETC9-1T-5 V1

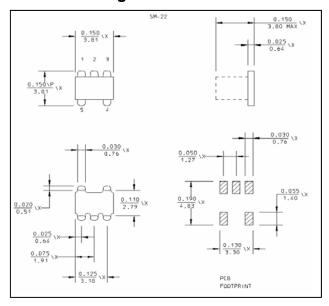
#### **Features**

- 1:9 Impedance Ratio
- CT on Secondary
- Surface Mount
- Tape and reel packaging available

## **Description**

M/A-COM's ETC9-1T-5 is a 9:1 RF transmission line step-up 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. Parts are packaged in tape & reel.

### SM - 22 Package



# Electrical Specifications: $T_A = 25^{\circ}C$ , $Z_0 = 50\Omega^{1}$

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
RF Frequency	_	10 - 75	MHz	_	_	_
Insertion Loss	F <sub>L</sub> —f <sub>U</sub>	10 - 75	dB	_	0.8	2.0
Amplitude Unbalance	F <sub>L</sub> —f <sub>U</sub>	10 - 75	dB	_	0.1	1
Phase Unbalance	F <sub>L</sub> —f <sub>U</sub>	10 - 75	Degrees	_	_	7
Return Loss	F <sub>L</sub> —f <sub>U</sub>	10 - 75	dB	_	20.5	14

## 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

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

## **Ordering Information**

Part Number	Package	
ETC9-1T-5TR	Tape and Reel (2000 piece Reel)	

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

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<sup>•</sup> Europe Tel: 44.1908.574.200 / Fax: 44.1908.574.300

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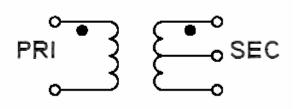
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## **Pin Configuration**

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

#### **Schematic**



- North America Tel: 800.366.2266 / Fax: 978.366.2266
- Europe Tel: 44.1908.574.200 / Fax: 44.1908.574.300
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