



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

ETC1-1-10 V1

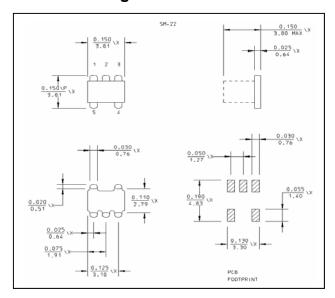
#### **Features**

- 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: $T_A = 25$ °C, $Z_0 = 50\Omega^1$

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
RF Frequency	_	1710 - 1910	MHz	_	_	_
Insertion Loss	F <sub>L</sub> —f <sub>U</sub>	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

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)

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

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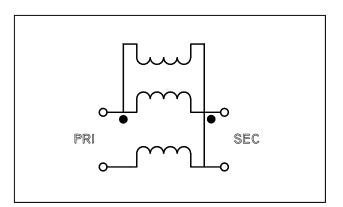
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## **Pin Configuration**

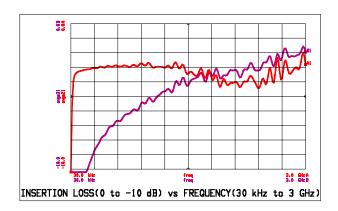
Pin No.	Function	
1	Secondary Dot	
2	Not Connected	
3	Secondary	
4	Primary	
5	Primary Dot	

### **Schematic**

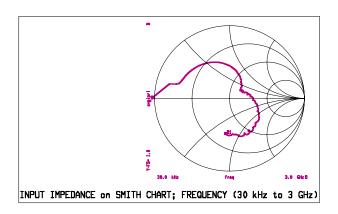


# **Typical Performance Curves**

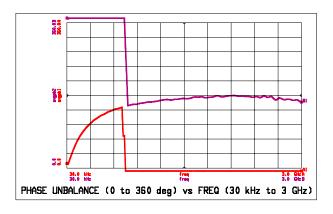
#### **Insertion Loss**



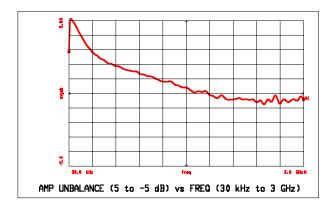
### Input Impedance



#### Phase Unbalance



#### Amplitude Unbalance



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