



# E-Series RF 1:1 Flux Coupled Transformer 3 – 200 MHz

ETC1-1T V10

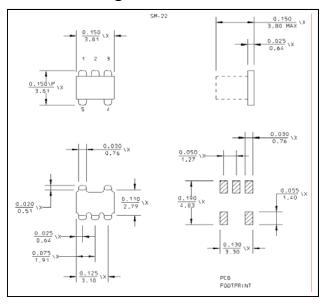
#### **Features**

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

## **Description**

M/A-COM's ETC1-1T is a 1:1 RF flux coupled transformer in a low cost, surface mount package. Ideally suited for high volume 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	_	3 - 200	MHz	_	_	_
Insertion Loss	_	3 - 200	dB	_	_	1.5
Amplitude Imbalance	_	3 - 50 3 - 200	dB dB	_	_	0.1 0.5
Phase Imbalance	_	3 - 50 3 - 200	Degrees Degrees	_	_	1.0 5.0
Input Return Loss	_	3 - 200 5 - 120	dB dB	_	_	10.0 15.0

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

Parameter	Absolute Maximum
RF Power	250 mW
DC Current	240 mA <sup>2</sup>
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.
- The maximum DC current applies to the secondary center tap in applications where the secondary is balanced.

## **Ordering Information**

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

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<sup>•</sup> North America Tel: 800.366.2266 / Fax: 978.366.2266

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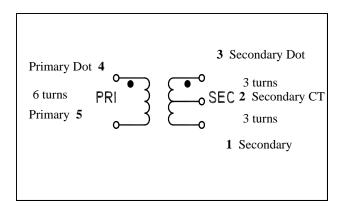
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## **Pin Configuration**

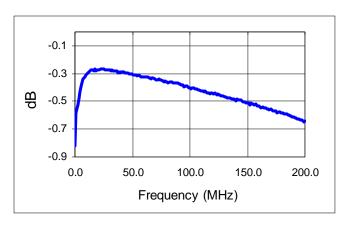
Pin No.	Function	
1	Secondary	
2	Secondary CT	
3	Secondary Dot	
4	Primary Dot	
5	Primary	

### **Schematic**

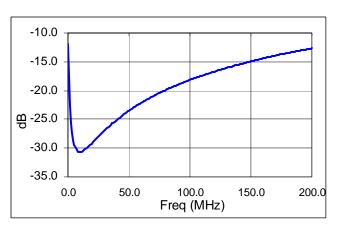


## **Typical Performance Curves**

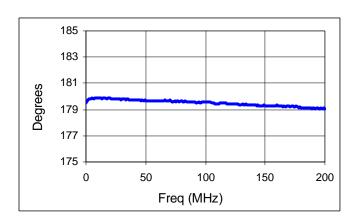
#### Insertion Loss



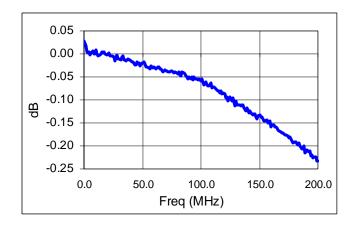
#### Input Return Loss



#### Phase Imbalance



#### Amplitude Imbalance



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