



# E-Series RF 1:4 Transmission Line Step-up Transformer 500 – 2500 MHz

ETC1.6-4-2-3 V3

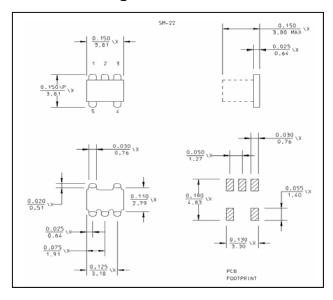
#### **Features**

- 1:4 Impedance Ratio
- CT on Secondary
- Surface Mount
- Tape and reel packaging available

## **Description**

M/A-COM's ETC1.6-4-2-3 is a 4:1 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	_	500 - 2500	MHz	_	_	_
Insertion Loss	F <sub>L</sub> —f <sub>U</sub>	500 - 750 750 - 1200 1200 - 2500	dB dB dB		_ _ _	3.0 1.0 3.0

## **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	
ETC1.6-4-2-3TR	Tape and Reel (2000 piece Reel)	

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

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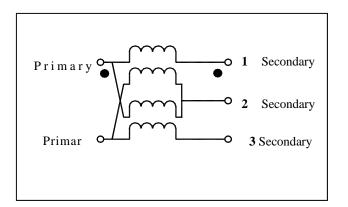
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## **Pin Configuration**

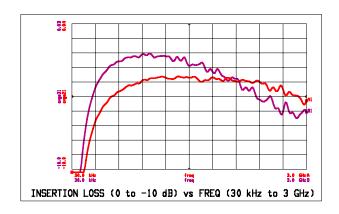
Pin No.	Function	
1	Secondary Dot	
2	Secondary CT	
3	Secondary	
4	Primary	
5	Primary Dot	

### Schematic

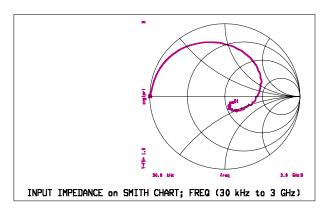


## **Typical Performance Curves**

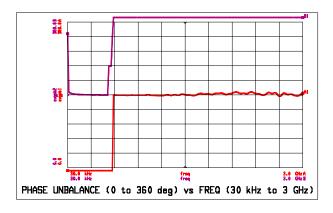
#### **Insertion Loss**



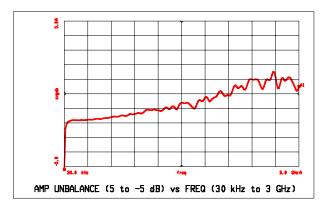
#### Input Impedance



#### Phase Unbalance



#### Amplitude Unbalance



2

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