

**E-Series RF 1:1 Transformer**  
2 – 500 MHz

**ETC1-1T-5**  
**V1**

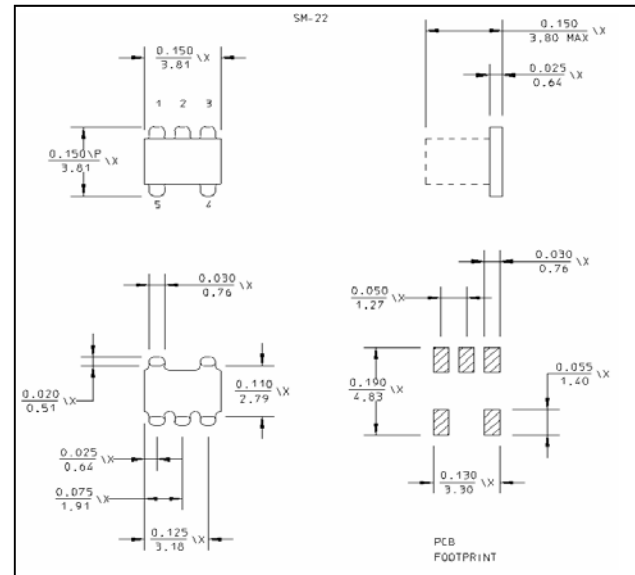
**Features**

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

**Description**

M/A-COM's ETC1-1T-5 is a 1:1 RF transformer in a low cost, surface mount package. Typical applications include single to balanced mode conversion and impedance matching. Parts are packaged in tape & reel.

**SM - 22 Package**



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

Parameter	Test Conditions	Frequency	Units	Min	Typ	Max
RF Frequency	—	2 - 500	MHz	—	—	—
Insertion Loss	—	2 - 300	dB	—	—	1.0
		2 - 500				2.0
Amplitude Imbalance	—	2 - 300	dB	—	—	0.3
		2 - 500				0.6
Phase Imbalance	—	2 - 300	Degrees	—	—	2.0
		2 - 500				5.0

**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

1. Operation of this device above any one of these parameters may cause permanent damage.
2. The maximum DC current applies to the secondary center tap in applications where the secondary is balanced.

**Ordering Information**

Part Number	Package
ETC1-1T-5TR	Tape and Reel (2000 piece Reel)

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**Pin Configuration**

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

**Schematic**

