

E-Series RF 1:1 Transformer 0.1 – 200 MHz

Rev. V2

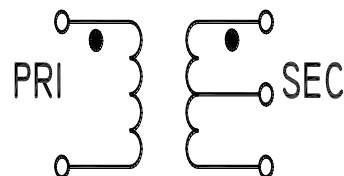
Features

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

Description

M/A-COM's ETC1-1T-2 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.

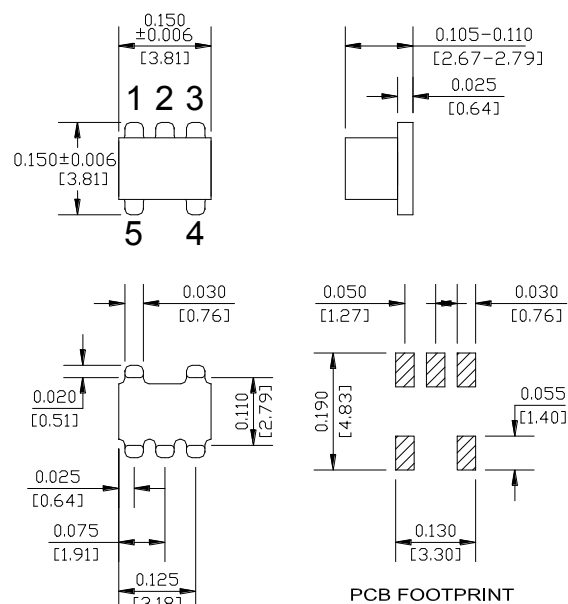
Schematic



Product Image



SM-22 package



Pin Configuration

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

* Dimensions are inches (millimeters) ±0.015 (0.38) unless otherwise specified.

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

Parameter	Test Conditions	Frequency	Units	Min	Typ	Max
RF Frequency	—	0.1 - 200	MHz	—	—	—
Insertion Loss	—	0.1 - 200	dB	—	0.3	1.5
Amplitude Imbalance	—	0.1 - 200	dB	—	—	0.5
Phase Imbalance	—	0.1 - 200	Degrees	—	—	5°

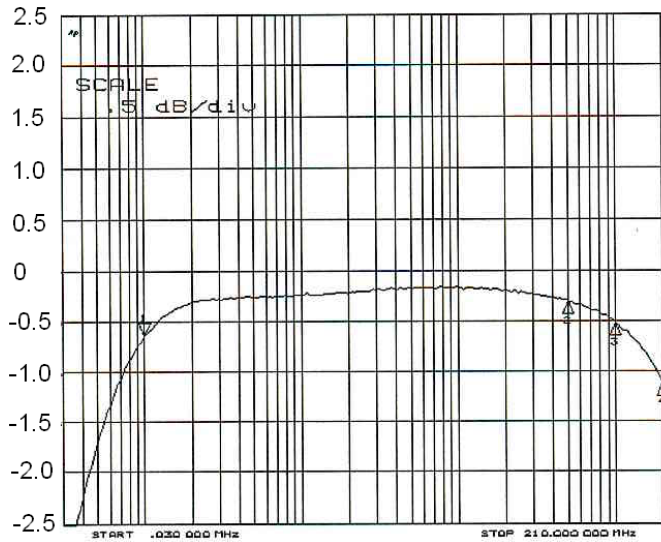
Absolute Maximum Ratings ¹

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

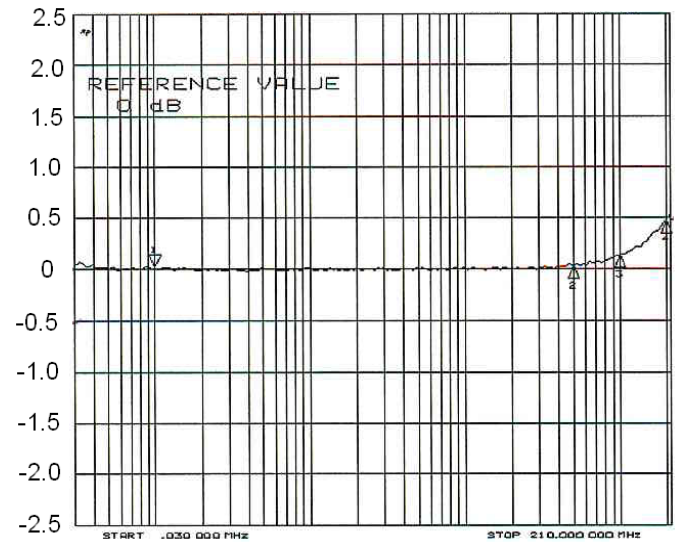
1. Operation of this device above any one of these parameters may cause permanent damage.

Typical Performance Curves

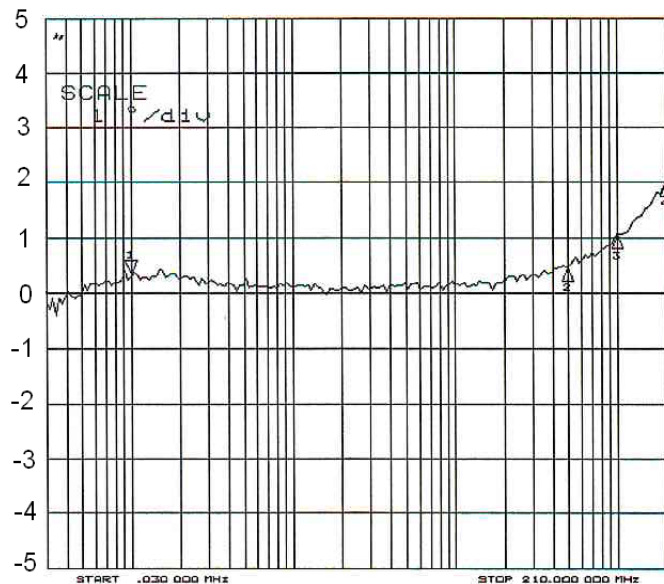
Insertion Loss



Amplitude Unbalance



Phase Unbalance



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