

ETC1-1T-2TR



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

Rev. V2

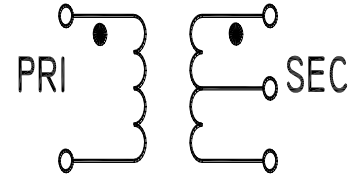
Features

- 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.

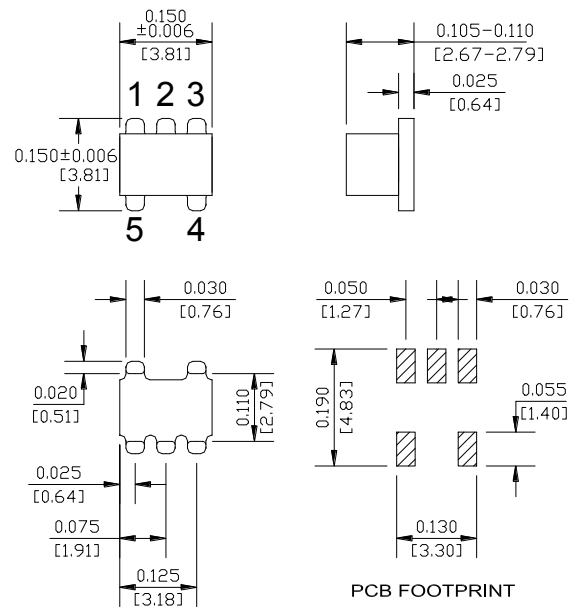
Schematic



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.

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° |

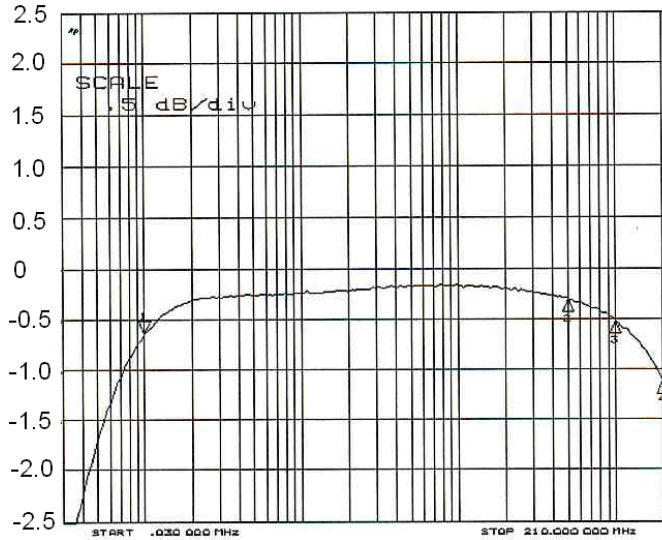
Absolute Maximum Ratings ¹

| 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 |

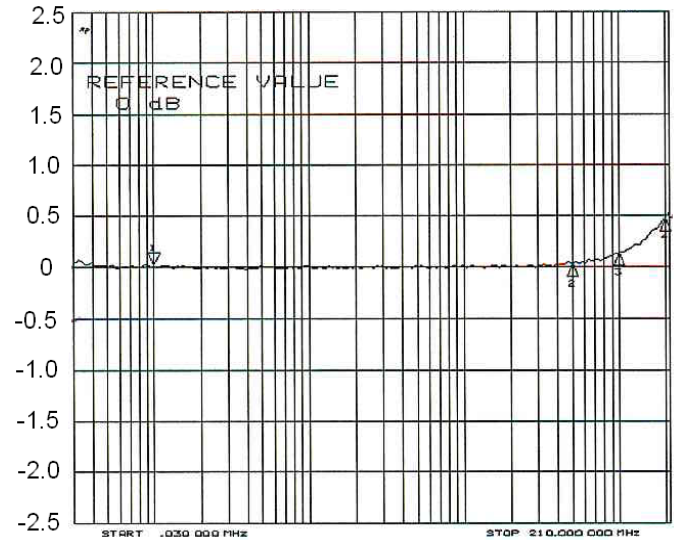
1. Operation of this device above any one of these parameters may cause permanent damage.

Typical Performance Curves

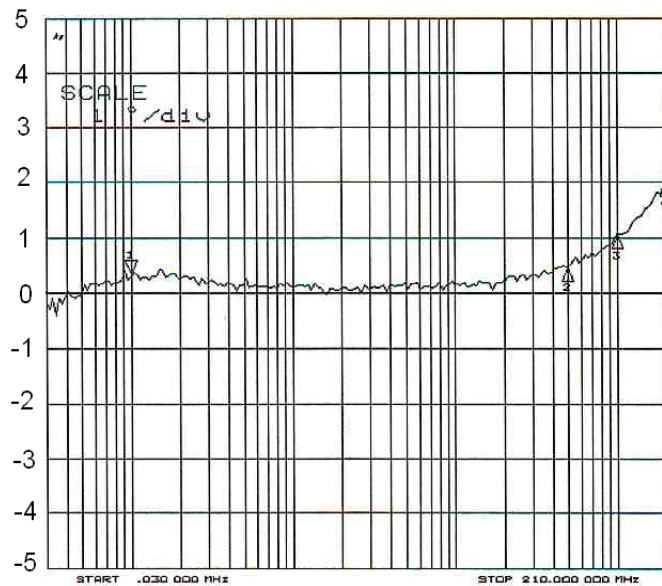
Insertion Loss



Amplitude Unbalance



Phase Unbalance



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