

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

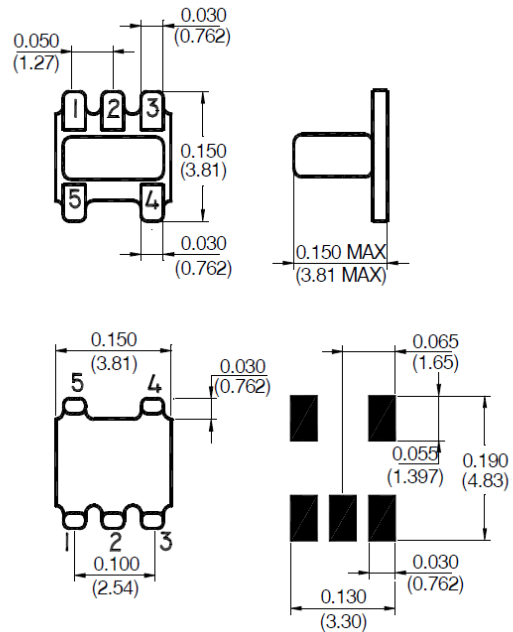
Rev. V3

Features

- Surface Mount
- 1:1 Impedance Ratio

Description

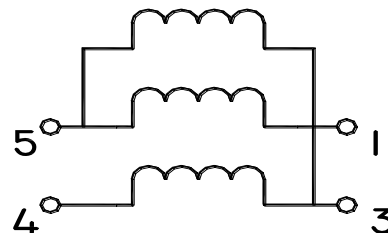
M/A-COM's ETC1-1T-5 is a 1:1 RF transformer in a low cost, surface mount package. Ideally suited for high volume cellular wireless applications. Typical applications include single to balanced mode conversion and impedance matching.



Ordering Information^{1,2}

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

Functional Schematic



Pin Configuration³

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

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Electrical Specifications @25°C

Parameter	Units	Typical	Minimum	Maximum
Frequency Range 2 - 500	MHz	—	—	—
Insertion Loss ($f_L - f_U$)				
2 - 500 MHz	dB	—	—	2.0
2 - 300 MHz	dB	—	—	1.0
Amplitude Imbalance				
2 - 300 MHz	dB	—	—	0.3
2 - 500 MHz	dB	—	—	0.6
Phase Imbalance				
2 - 300 MHz	°	—	—	2.0°
2 - 500 MHz	°	—	—	5.0°

Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Power	250 mW
DC Current	30 mA
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C

Tape & Reel information

Parameter	Units	Value
Qty per reel	-	2000
Reel Size	mm	330
Tape Width (W)	mm	12.0
Pitch (P1)	mm	8.0
A ₀	mm	4.0
B ₀	mm	4.0
K ₀	mm	2.9
Orientation	-	F5

Reference Application note ANI-019 for orientation

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