

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

Rev. V3

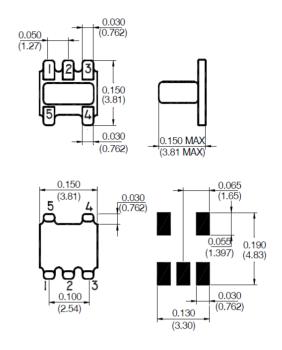
Features

- 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	o	_	_	2.0°
2 - 500 MHz	0	_	_	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

ETC1-1T-5



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