E-Series RF 1:1 Flux Coupled Transformer 3 – 200 MHz



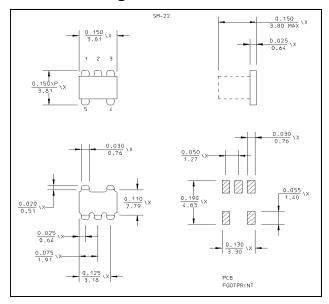
Features

- 1:1 Impedance Ratio
- · CT on Secondary
- Surface Mount
- · Tape and reel packaging available

Description

M/A-COM's ETC1-1T is a 1:1 RF flux coupled transformer in a low cost, surface mount package. Ideally suited for high volume applications. Parts are packaged in tape & reel.

SM - 22 Package



Electrical Specifications: $T_A = 25$ °C, $Z_0 = 50\Omega^1$

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
RF Frequency	_	3 - 200	MHz	_	_	_
Insertion Loss	_	3 - 200	dB	_	_	1.5
Amplitude Imbalance	_	3 - 50 3 - 200	dB dB	_	_	0.1 0.5
Phase Imbalance	_	3 - 50 3 - 200	Degrees Degrees	_	_	1.0 5.0
Input Return Loss	_	3 - 200 5 - 120	dB dB	_	_	10.0 15.0

Absolute Maximum Ratings ¹

Parameter	Absolute Maximum
RF Power	250 mW
DC Current	240 mA ²
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.
- The maximum DC current applies to the secondary center tap in applications where the secondary is balanced.

Ordering Information

Part Number		Package		
	ETC1-1TTR	Tape and Reel (2000 piece Reel)		

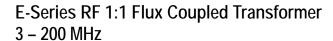
ADVANCED: Data Sheets contain information regarding a product M/A-COM Technology Solutions is considering for development. Performance is based on target specifications, simulated results, and/or prototype measurements. Commitment to develop is not guaranteed.

PRELIMINARY: Data Sheets contain information regarding a product M/A-COM Technology Solutions has under development. Performance is based on engineering tests. Specifications are typical. Mechanical outline has been fixed. Engineering samples and/or test attain may be available. Commitment to produce in volume is not guaranteed:

[•] North America Tel: 800.366.2266 • Europe Tel: +353.21.244.6400

India Tel: +91.80.4155721
 China Tel: +86.21.2407.1588
 Visit www.macomtech.com for additional data sheets and product information.

V10

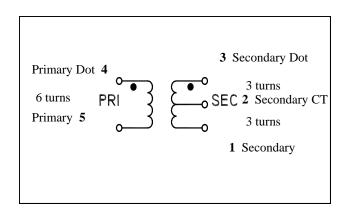




Pin Configuration

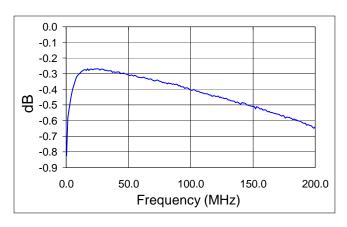
Pin No.	Function
1	Secondary
2	Secondary CT
3	Secondary Dot
4	Primary Dot
5	Primary

Schematic

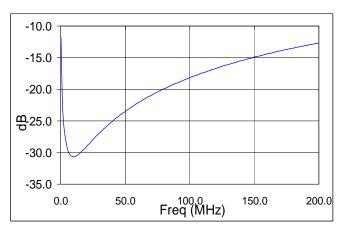


Typical Performance Curves

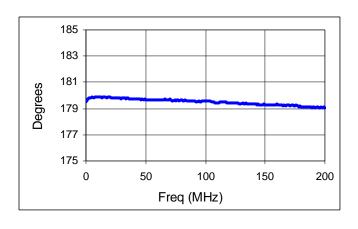
Insertion Loss



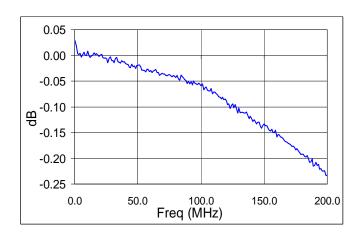
Input Return Loss



Phase Imbalance



Amplitude Imbalance



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