



E-Series RF 1:4 Flux Coupled Step-up Transformer 2 – 800 MHz

ETC4-1-2 V3

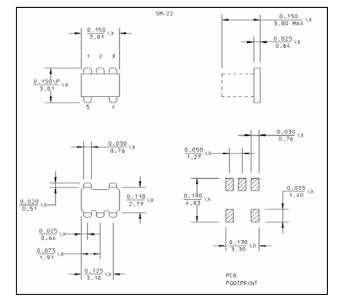
Features

- 1:4 Impedance Ratio
- CT on Secondary
- Surface Mount
- Tape and reel packaging available

Description

M/A-COM's ETC4-1-2 is a 1:4 RF flux coupled stepup transformer in a low cost, surface mount package. Ideally suited for high volume cellular and wireless applications. Typical applications include single to balanced mode conversion and impedance matching. Parts are packaged in tape & reel.

SM - 22 Package



Electrical Specifications: $T_A = 25^{\circ}C$, $Z_0 = 50\Omega^{-1}$

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
RF Frequency	_	2 - 800	MHz	—	_	_
Insertion Loss	F _L —f _U	10 - 100 5 - 600 2 - 800	dB dB dB		 1.21 	1.0 2.0 3.0
Amplitude Unbalance	_	10 - 100 2 - 800	dB dB	_	_	0.25 1.0
Phase Unbalance	_	10 - 500 2 - 800	Degrees Degrees	_		2.0 10.0

Absolute Maximum Ratings¹

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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.

Ordering Information

Part Number	Package	
ETC4-1-2TR	Tape and Reel (2000 piece Reel)	

- Europe Tel: 44.1908.574.200 / Fax: 44.1908.574.300
- Asia/Pacific Tel: 81.44.844.8296 / Fax: 81.44.844.8298

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[•] North America Tel: 800.366.2266 / Fax: 978.366.2266

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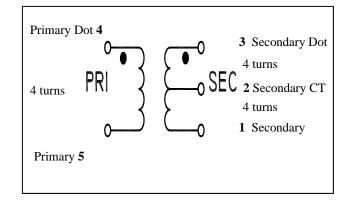
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Pin Configuration

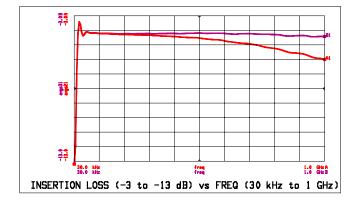
Pin No.	Function	
1	Secondary	
2	Secondary CT	
3	Secondary Dot	
4	Primary Dot	
5	Primary	

Schematic

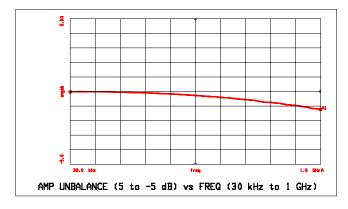


Typical Performance Curves

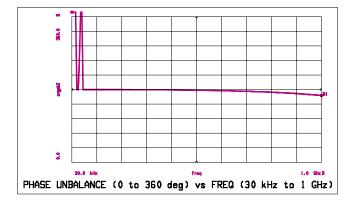
Insertion Loss



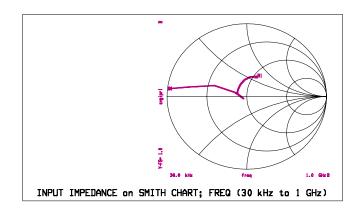
Amplitude Unbalance



Phase Unbalance



Input Impedance



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