



E-Series RF 1:4 Flux Coupled Step-up Transformer 1 – 350 MHz

ETC4-1 V4

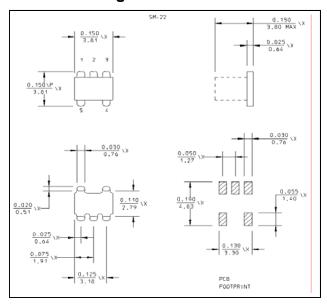
Features

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

Description

M/A-COM's ETC4-1 is a 1:4 RF flux coupled step-up transformer in a low cost, surface mount package. Ideally suited for high volume cellular and wireless 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	_	1 - 350	MHz	_	_	_
Insertion Loss	F _L —f _U	5 - 100 2 - 300 1 - 350	dB dB dB	_ _ _	 1.21 	1.0 2.0 3.0
Amplitude Unbalance	_	5 - 100 1 - 350	dB dB	_	_	0.1 0.5
Phase Unbalance	_	5 - 100 1 - 350	Degrees Degrees	_	_	1.0 5.0

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

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

Ordering Information

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

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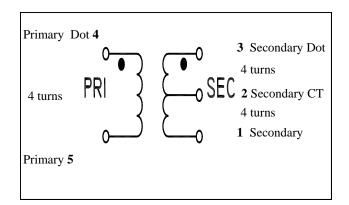
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Pin Configuration

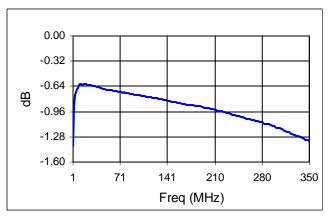
Pin No.	Function	
1	Secondary	
2	Secondary CT	
3	Secondary Dot	
4	Primary Dot	
5	Primary	

Schematic

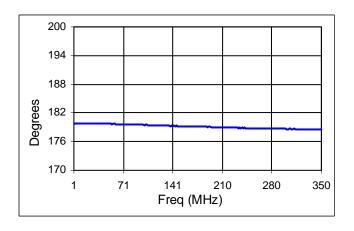


Typical Performance Curves

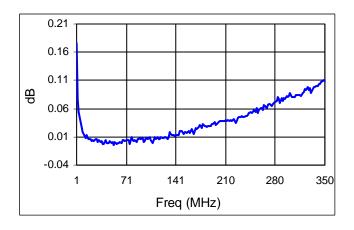
Insertion Loss



Phase Unbalance



Amplitude Unbalance



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