



E-Series RF 1:4 Transmission Line Step-up Transformer 6 – 1000 MHz

ETC4-1T-7 V4

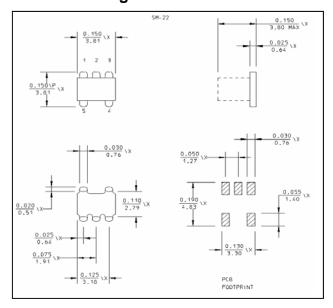
Features

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

Description

M/A-COM's ETC4-1T-7 is a 1:4 RF transmission line step-up 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: $T_A = 25$ °C, $Z_0 = 50\Omega^1$

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
RF Frequency	_	6 - 1000	MHz	_	_	_
Insertion Loss	F _L —f _U	6 - 600 600 - 1000	dB		_	2.0 3.0
Amplitude Unbalance	F _L —f _U	6 - 1000	dB	_	_	1.0
Phase Unbalance	F _L —f _U	6 - 1000	Degrees	_	_	10

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
ETC4-1T-7TR	Tape and Reel (2000 piece Reel)

Visit www.macom.com for additional data sheets and product information.

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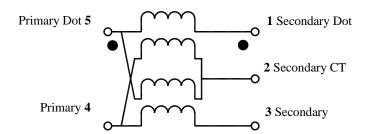
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Pin Configuration

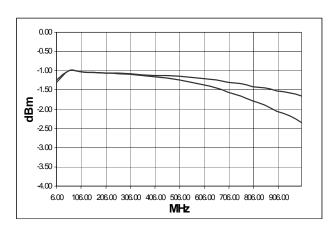
Pin No.	Function	
1	Secondary Dot	
2	2 Secondary CT	
3	Secondary	
4	Primary	
5	Primary Dot	

Schematic

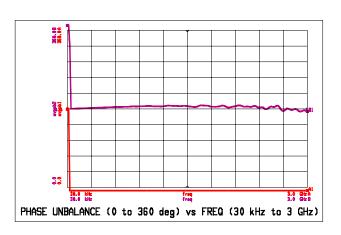


Typical Performance Curves

Insertion Loss



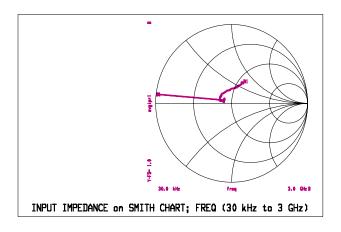
Phase Unbalance



Amplitude Unbalance



Input Impedance



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