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

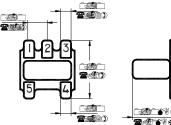


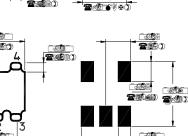
#### Features

- Surface Mount
- 1:4 Impedance Ratio
- CT on Secondary
- Available on Tape & Reel



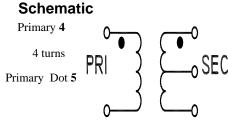
# SM-22 Package





## 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.





**R**.a.

# Electrical Specifications @25°C

Parameter	Units	Nominal	Maximum	Mean (x)	Sigma (σ)
Frequency Range 1-350	MHz	_	_		_
Insertion Loss (f <sub>L</sub> - f <sub>U</sub> ) 5 - 100 MHz	dB	_	1.0	_	_
2 - 300 MHz 1 - 350 MHz	dB dB	—	2.0 3.0	1.21	0.032
Amplitude Unbalance 5 - 100 MHz 1 - 350 MHz	dB dB		0.1 0.5	_ _	
Phase Unbalance 5 - 100 MHz 1 - 350 MHz	Degrees Degrees		1.0 5.0		

Please Note that the photograph above indicates typical package only, not actual unit.

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activate D. Data Sites contain information regarding a product war-cown rectinology Solution 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 data may be available. Commitment to produce in volume is not guaranteed. S 0180 H

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## **Absolute Maximum Ratings**

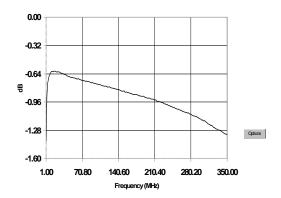
Parameter	Absolute Maximum		
RF Power	250 mW		
DC Current	30 mA		
Operating Temperature	-20°C to +85°C		
Storage Temperature	-20°C to +85°C		

#### **Functional Configuration**

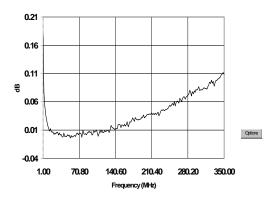
Function	Pin No.		
Secondary	1		
Secondary CT	2		
Secondary Dot	3		
Primary Dot	5		
Primary	4		

## Typical Performance @ 25°C

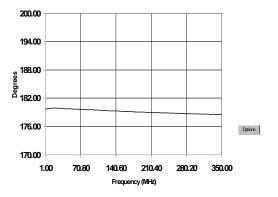
#### Insertion Loss



**Amplitude Unbalance** 



#### Phase Unbalance



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