# ET16-6T-SM1



## E-Series RF 16:1 Transformer 0.06 – 60 MHz

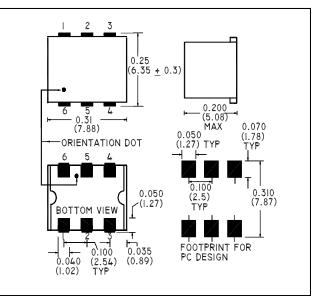
#### Features

- 16:1 Impedance Ratio •
- CT on Secondary
- Surface Mount
- Tape and reel packaging available

#### Description

M/A-COM's ET16-6T-SM1 is a 16:1 RF 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 - 1 Package



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

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
RF Frequency	_	0.06 - 60	MHz		—	_
Insertion Loss	F∟—f∪	0.06 - 60 0.08 - 40 0.15 - 15	dB dB dB			3.0 2.0 1.0
Amplitude Unbalance	F <sub>L</sub> —f <sub>U</sub>	0.06 - 30 0.06 - 60	dB dB	_	_	0.3 0.6
Phase Unbalance	F <sub>L</sub> —f <sub>U</sub>	0.06 - 20 0.06 - 60	Degrees Degrees	_	_	1° 4°

## Absolute Maximum Ratings<sup>1</sup>

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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.

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 data may be available. Commitment to produce in M/A-COM Technology Solutions Inc. and its affiliates reserve the right to make volume is not guaranteed

### **Ordering Information**

Part Number	Package		
ET16-6T-SM1TR	Tape and Reel (900 piece Reel)		

• India Tel: +91.80.4155721 • China Tel: +86.21.2407.1588

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

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<sup>•</sup> North America Tel: 800.366.2266 • Europe Tel: +353.21.244.6400

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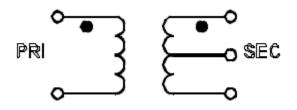
V1

E-Series RF 16:1 Transformer 0.06 – 60 MHz

### **Pin Configuration**

Pin No.	Function
1	Secondary
2	Secondary CT
3	Secondary Dot
4	Primary Dot
5	Not Connected
6	Primary

Schematic



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