

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

**ET16-6T-SM1**  
V1

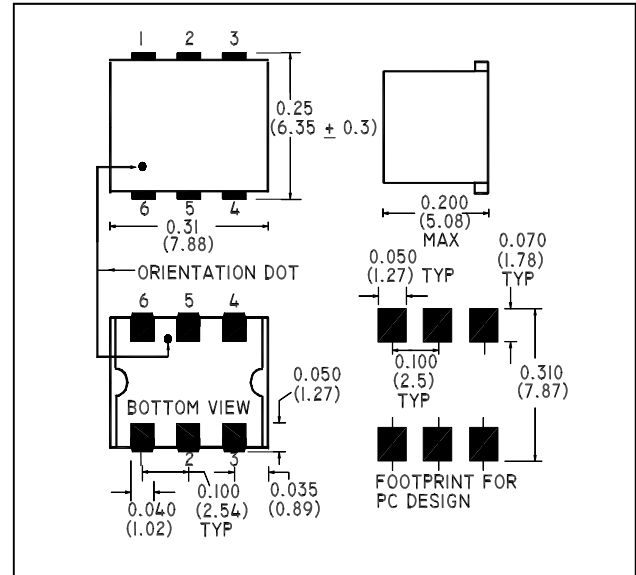
**Features**

- 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:  $T_A = 25^\circ\text{C}$ ,  $Z_0 = 50\Omega$ <sup>1</sup>**

Parameter	Test Conditions	Frequency	Units	Min	Typ	Max
RF Frequency	—	0.06 - 60	MHz	—	—	—
Insertion Loss	$F_L - f_U$	0.06 - 60	dB	—	—	3.0
		0.08 - 40	dB	—	—	2.0
		0.15 - 15	dB	—	—	1.0
Amplitude Unbalance	$F_L - f_U$	0.06 - 30	dB	—	—	0.3
		0.06 - 60	dB	—	—	0.6
Phase Unbalance	$F_L - f_U$	0.06 - 20	Degrees	—	—	1°
		0.06 - 60	Degrees	—	—	4°

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

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

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**Pin Configuration**

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

**Schematic**

