ETC16-1T-2TR

E-Series RF 1:16 Transformer 5-40 MHz

Features

- 1:16 Impedance Ratio
- CT on Secondary
- Surface Mount
- Tape and reel packaging available
- 260°C Reflow Compatible

Description

M/A-COM's ETC16-1T-2TR is a 1:16 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.

The ETC16-1T-2TR is available in a SM-22 surface mount package. Parts are packaged in tape & reel.

Ordering Information

Part Number	Package
ETC16-1T-2TR	Tape and Reel (2000 piece Reel)

Product Image



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

Parameter	Test Conditions	Frequency	Units	Min	Тур	Мах
RF Frequency	_	5 - 40	MHz	—	—	Ι
Insertion Loss	_	5 - 40 22	dB dB	—	—	1.0 0.8
Amplitude Imbalance	—	5 - 40	dB	_	_	0.3
Phase Imbalance	_	5 - 40	Degrees	—	—	3

Pin Configuration

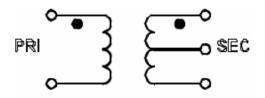
Pin No.	Function	
1	Secondary	
2	Secondary CT	
3	Secondary Dot	
4	Primary Dot	
5	Primary	

Absolute Maximum Ratings

Parameter	Absolute Maximum	
RF Power	250 mW	
DC Current	240 mA ²	
Operating Temperature	-40°C to +85°C	
Storage Temperature	-55°C to +125°C	

1. Exceeding any one or combination of these limits may cause permanent damage to this device.

Schematic



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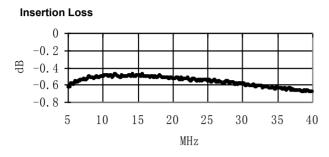
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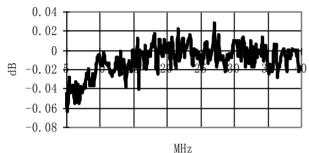
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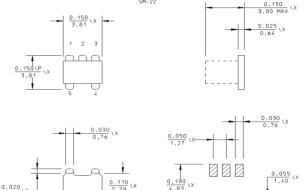
Typical Performance Curves at +25°C



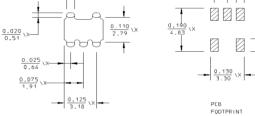
Amplitude Balance



SM - 22 Package

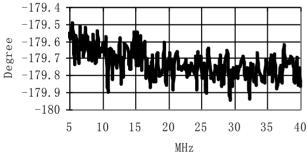


SM-22

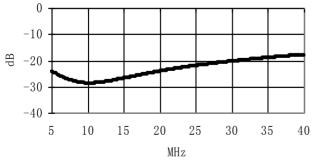


Dimensions are inches (millimeters) ±0.015 (0.38) unless otherwise specified.





Input Return Loss





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