



CATV RF 1:1 Transmission Line Transformer 4.5 - 3000 MHz

ETC1-1-13 V4

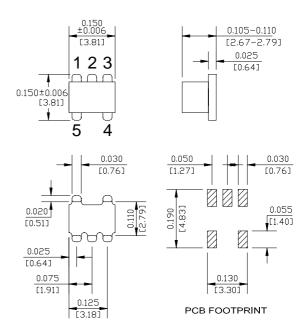
Features

- 1:1 Impedance ratio
- Surface mount
- · Tape and reel packaging available

Description

M/A-COM's ETC1-1-13 is a 1:1 RF transmission line transformer in a low cost, surface mount package. Ideally suited for high volume cellular and wireless application. Parts are packaged in tape & reel

SM-22 package



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

Parameter	Test Conditions	Test Conditions	Units	Min	Тур	Max
RF Frequency	-	4.5 - 3000	MHz	-	-	-
Insertion Loss	-	4.5 - 1000 1000 - 2000 2000 - 3000	dB dB dB	- - -	0.32 - -	1.0 2.0 3.5
Amplitude Unbalance	-	4.5 - 1000	dB	-	-	1.0
Phase Unbalance	-	4.5 - 1000	Degrees	-	-	20

Absolute Maximum Ratings 1,2

Parameter	Absolute Maximum
DC Power	250mW
DC Current	30mA
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +125°C

Ordering Information

Part Number	Package
ETC1-1-13TR	2000 piece reel

- Exceeding any one or combination of these limits may cause permanent damage to this device.
- M/A-COM does not recommend sustained operation near these survivability limits.

information.

Note: Reference Application Note M513 for reel size information.

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





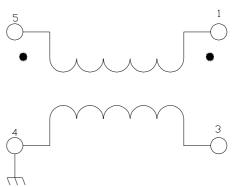
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Pin Configuration

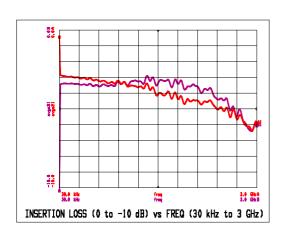
Pin No.	Function
1	Secondary Dot
2	Not Connected
3	Secondary
4	Primary
5	Primary Dot

Schematic

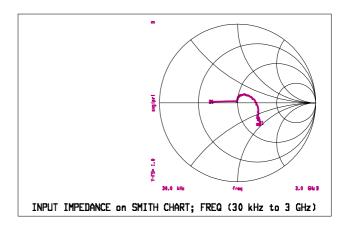


Typical Performance Curves

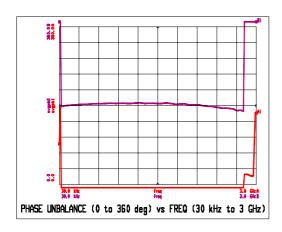
Insertion Loss



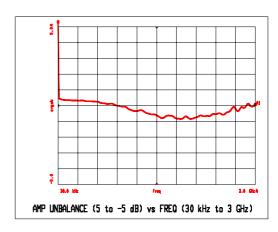
Input Impedance



Phase Unbalance



Amplitude Unbalance



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