

E-Series RF 1:1 Transmission Line Transformer

ETC1-1-13
V4

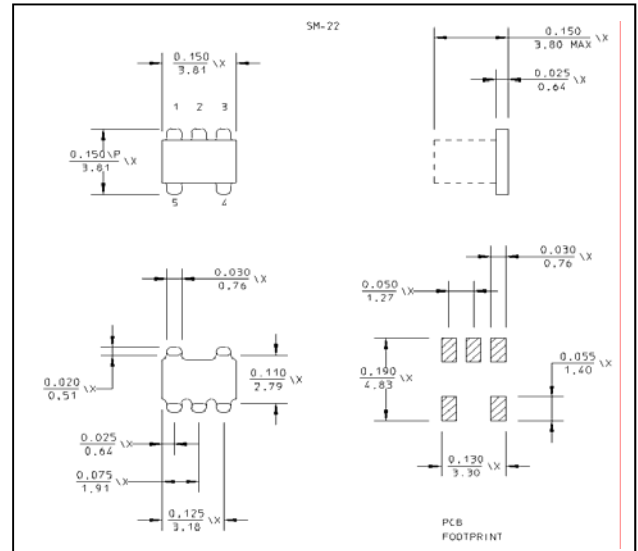
Features

- 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 applications. Parts are packaged in tape & reel.

SM - 22 Package



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

Parameter	Test Conditions	Frequency	Units	Min	Typ	Max
RF Frequency	—	4.5 - 3000	MHz	—	—	—
Insertion Loss	$F_L - f_U$	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

Parameter	Absolute Maximum
DC 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
ETC1-1-13TR	Tape and Reel (2000 piece Reel)

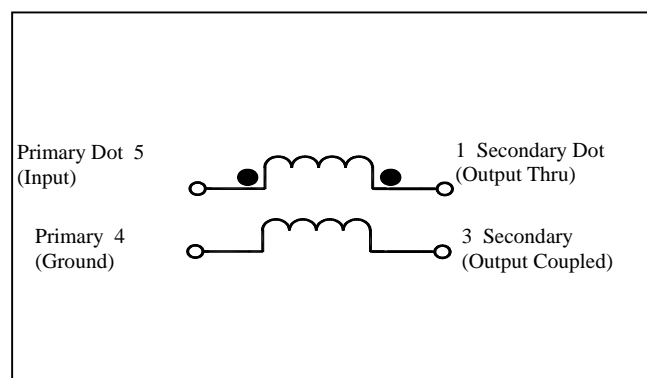
E-Series RF 1:1 Transmission Line Transformer 4.5 – 3000 MHz

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Pin Configuration

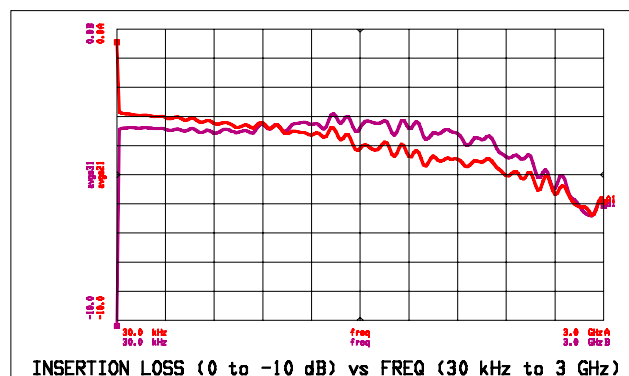
Pin No.	Function
1	Output (thru)
2	Not Connected
3	Output (coupled)
4	Ground
5	Input

Schematic

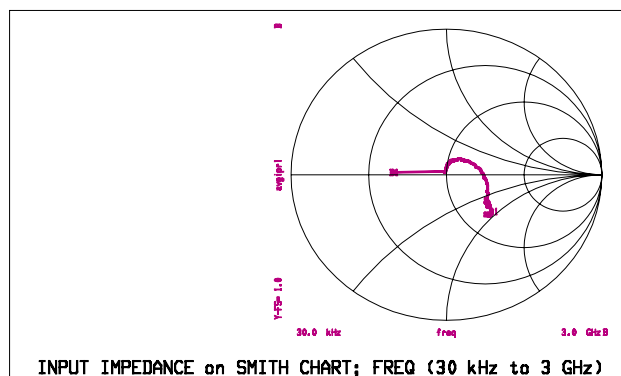


Typical Performance Curves

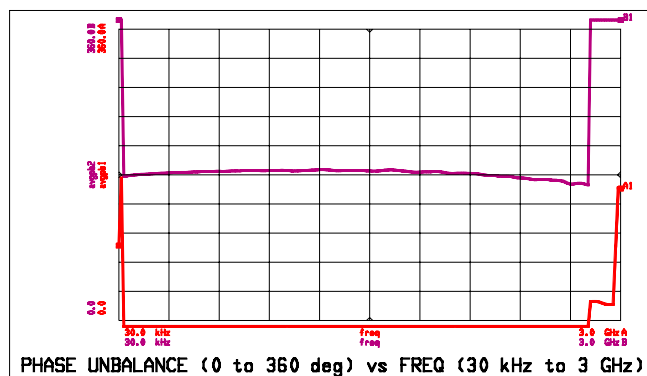
Insertion Loss



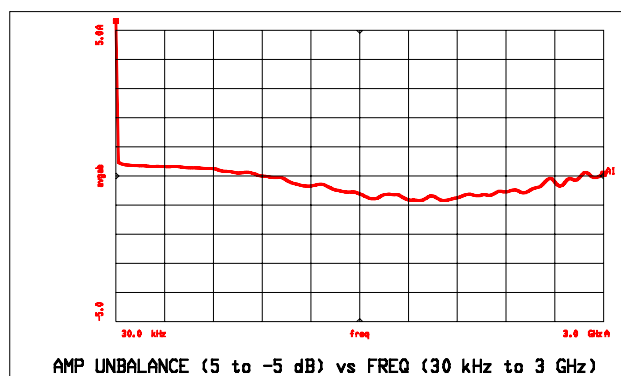
Input Impedance



Phase Unbalance



Amplitude Unbalance



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