

E-Series RF 1:4 Transmission Line Step-up Transformer 500 - 2500 MHz

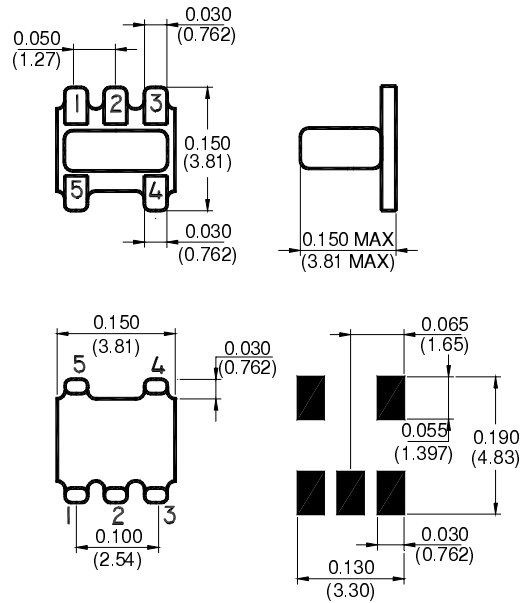


Features

- Surface Mount
- 1:4 Impedance Ratio
- CT on Secondary
- Available on Tape & Reel



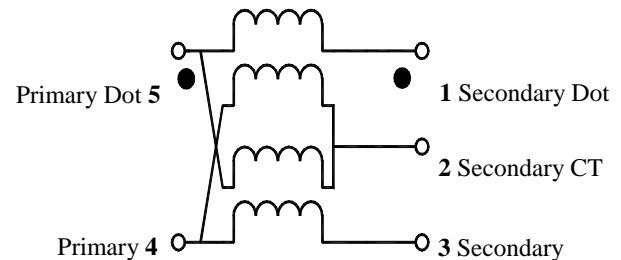
SM-22 Package



Description

M/A-COM's ETC1.6-4-2-3 is a 1:4 RF transmission line step-up 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.

Schematic



Electrical Specifications @25°C

Parameter	Units	Nominal	Maximum	Mean (x)	Sigma (σ)
Frequency Range 500 - 2500	MHz	—	—	—	—
Insertion Loss ($f_L - f_U$)					
500 - 750 MHz	dB	—	3.0	—	—
750 - 1200 MHz	dB	—	1.0	0.22	0.159
1200 - 2500 MHz	dB	—	3.0	—	—

Note: Mean and Sigma calculated from average loss at @ $(f_U - f_L)/2 + f_L$

Please Note that the photograph above indicates package only, not actual unit.

Absolute Maximum Ratings

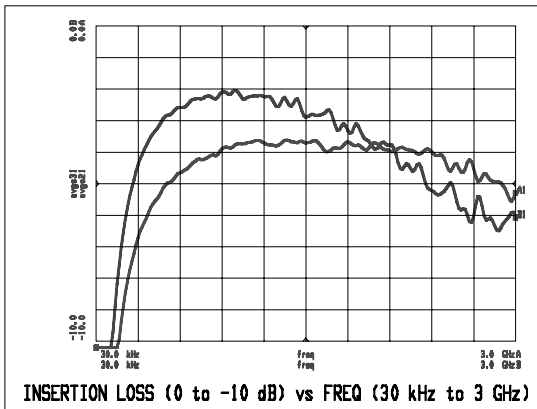
Parameter	Absolute Maximum
RF Power	250 mW
DC Current	30 mA
Operating Temperature	-30°C to +85°C
Storage Temperature	-30°C to +85°C

Functional Configuration

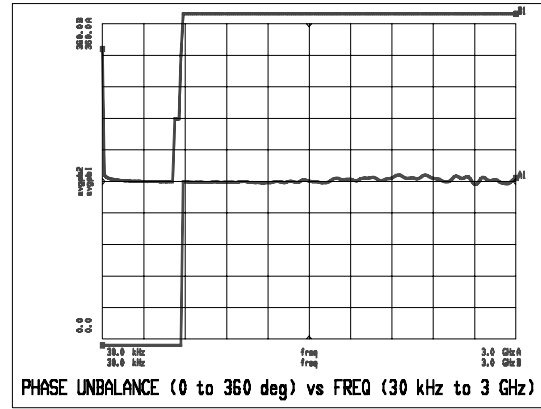
Function	Pin No.
Secondary	3
Secondary CT	2
Secondary Dot	1
Primary Dot	5
Primary	4

Typical Performance Over Extended Bandwidth (30kHz - 3.0GHz)

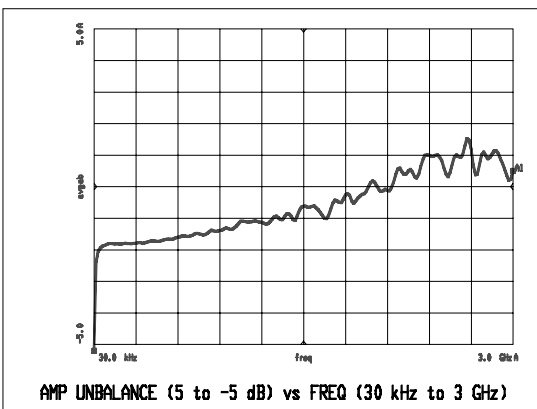
Insertion Loss



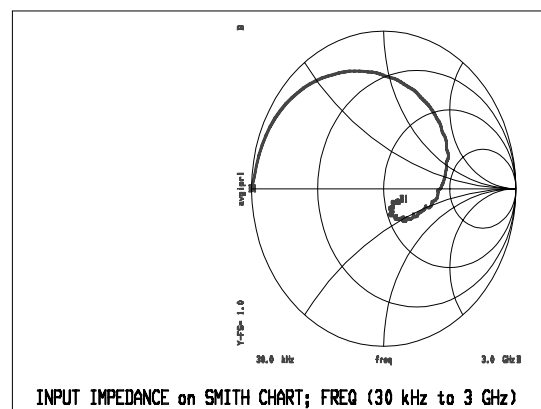
Phase Unbalance



Amplitude Unbalance



Input Impedance



Note: All measurements performed on Hewlett Packard 8753D Network Analyzer (201 sample points, linear scale) in a 50 ohm coplanar waveguide environment. Tables created using MDS software.

V2.00 S 0206 G



M/A-COM Division of AMP Incorporated ■ North America: Tel. (800) 366-2266, Fax (800) 618-8883 ■ Asia/Pacific: Tel. +85 2 2111 8088, Fax +85 2 2111 8087 ■ Europe: Tel. +44 (1344) 869 595, Fax+44 (1344) 300 020

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