

E-Series RF 1:1 Transformer

890 - 960 MHz

ETC1-1-4

V3.00

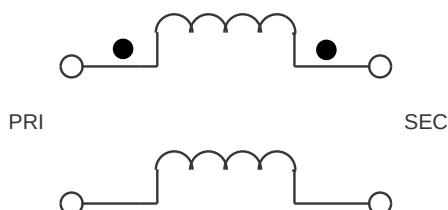
Features

- Surface Mount
- 1:1 Impedance Ratio

Description

M/A-COM's ETC1-1-4 is a 1:1 RF transformer in a low-cost, surface mount package. Ideally suited for high volume cellular and wireless applications. Typical applications include balanced port to single ended port matching.

Schematic



Specifications @ 25°C

Frequency Range: 890 - 960 MHz

Parameter	Maximum	Mean (x)	Sigma (σ)
Insertion Loss ($f_L - f_U$) 890 - 960 MHz	2.0 dB	0.18 dB	0.011
Amplitude Unbalance 890 - 960 MHz	1.2 dB	—	—
Phase Unbalance 890 - 960 MHz	10°	—	—

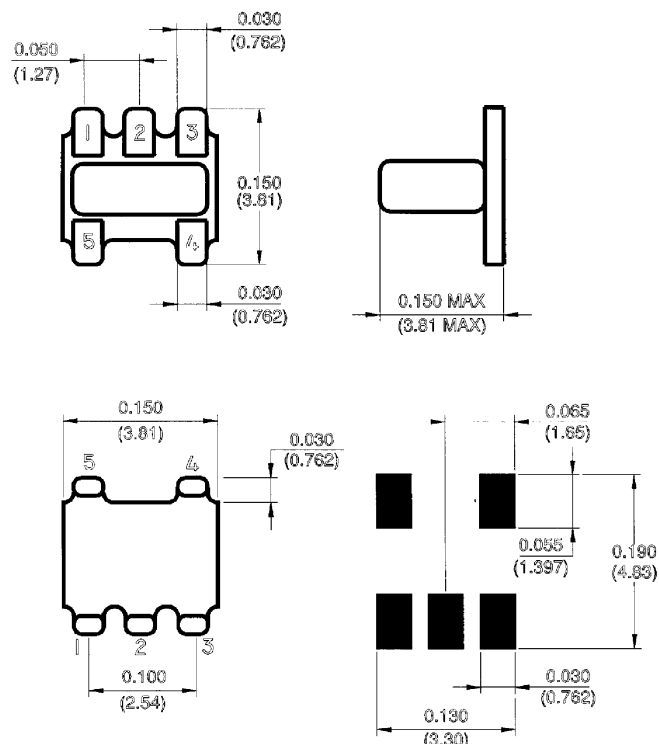
Note: Mean and sigma calculated from average loss at @ $(f_U - f_L)/2 + f_L$.

Ordering Information

Part No.
ETC1-1-4
ETC1-1-4TR

Packaging
Tubes
Tape & Reel

SM-22



Dimensions in () are in mm.
Unless Otherwise Noted: .x = ±0.04 (1.00)
.xx = ±0.02 (0.50)
.xxx = ±0.010 (0.250)

Pin Configuration

Pin No.	Function
1	Secondary
2	Not connected
3	Secondary dot
4	Primary dot
5	Primary

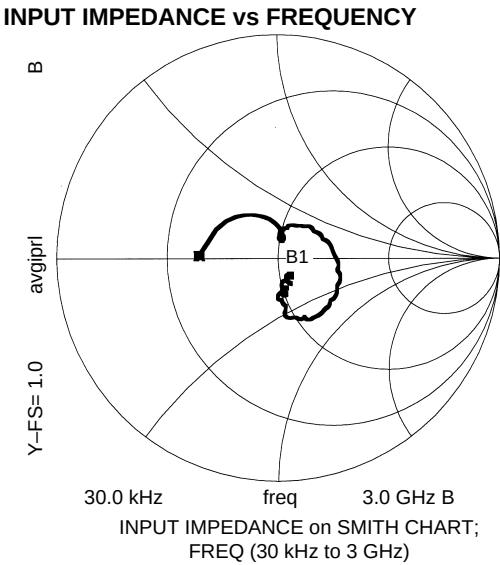
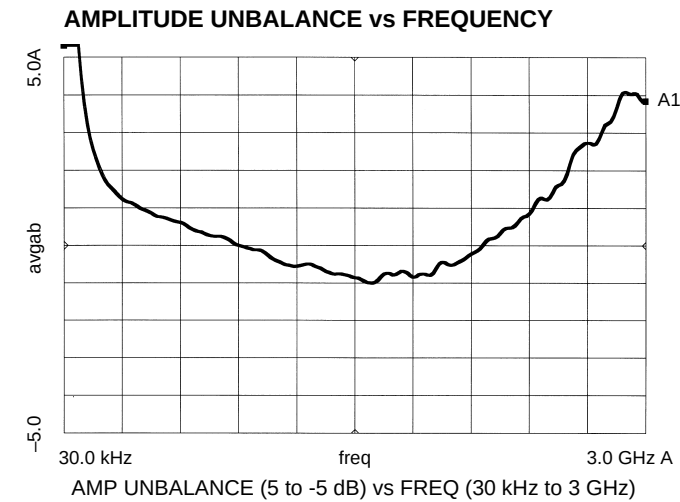
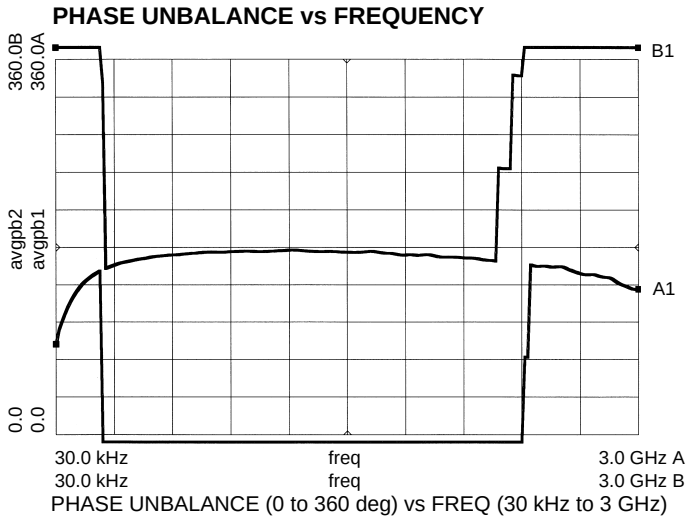
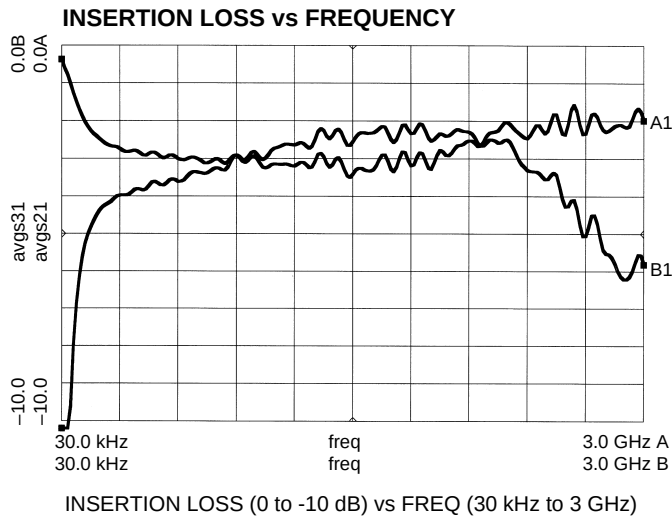
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Absolute Maximum Ratings

Parameter	Absolute Maximum
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RF Power	250 mW
DC Current	30 mA
Operating/Storage Temp.	-20°C to +85°C

Typical Performance

Over Extended Bandwidth (30 kHz - 3 GHz)



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.

S-Parameter data available by E-Mail. Send your request to: eurotec@corp.macom.com.