

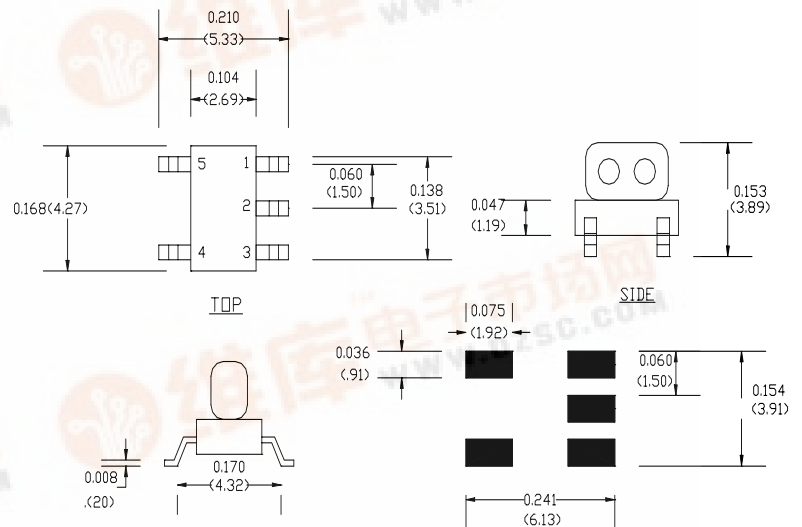
M/A-COM E-Series RF 1:1 Transformer 5 - 1000 MHz

Features

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



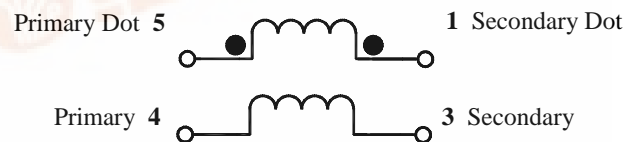
SM-138 Package



Description

M/A-COM's MABAE0032 is a 1:1 RF transformer in a low cost, surface mount package. Ideally suited for high volume cellular wireless applications. Typical applications include single to balanced mode conversion and impedance matching.

Schematic



Electrical Specifications @25°C

Parameter	Units	Typical	Minimum	Maximum
Frequency Range 5-1000	MHz	—	—	—
Insertion Loss				
5 - 300 MHz	dB	0.7	—	1.0
300-1000 MHz	dB	1.3	—	1.8
Amplitude Imbalance				
5-1000 MHz	dB	0.4	—	0.8
Phase Imbalance				
5 - 300 MHz	°	3.0°	—	5.0°
300-1000 MHz	°	7.0°	—	10.0°

Absolute Maximum Ratings

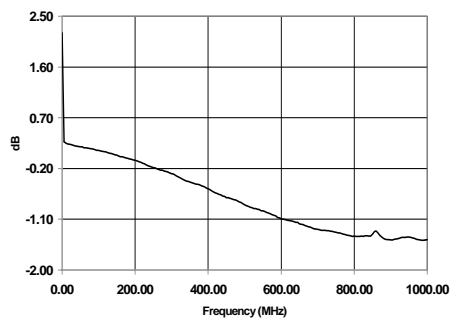
Parameter	Absolute Maximum
RF Power	250 mW
DC Current	30 mA
Operating Temperature	-20°C to +85°C
Storage Temperature	-20°C to +85°C

Functional Configuration

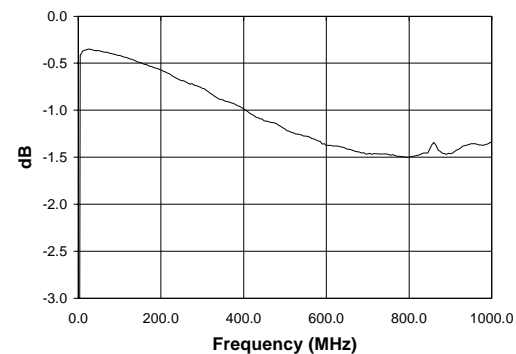
Function	Pin No.
Secondary Dot	1
Secondary CT	2
Secondary	3
Primary	4
Primary Dot	5
Primary CT	—
Case Ground	—
Not Connected	—

Typical Performance @ +25°C

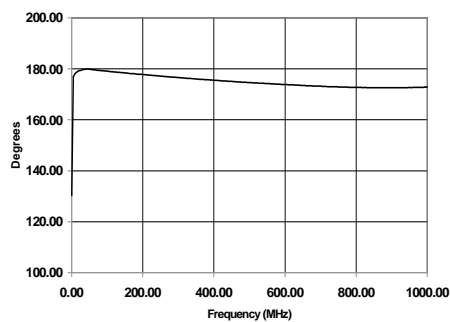
Primary to Secondary Dot Insertion Loss



Primary to Secondary Insertion Loss



Phase Imbalance



Amplitude Imbalance

