

E-Series RF 1.5:1 Transformer

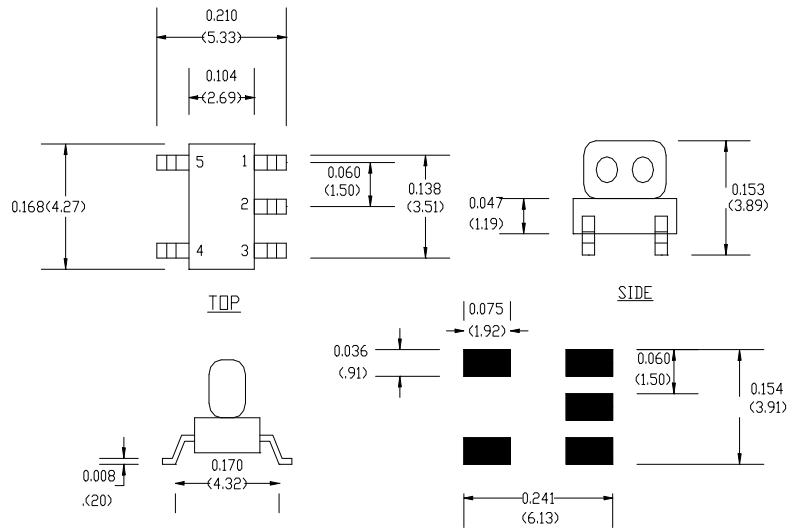
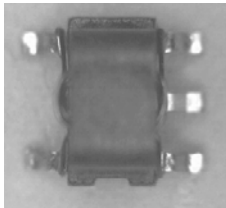
5 - 350 MHz



SM-138 Package

Features

- Surface Mount
- 1.5:1 Impedance Ratio
- CT on Primary.
- Available on Tape and Reel

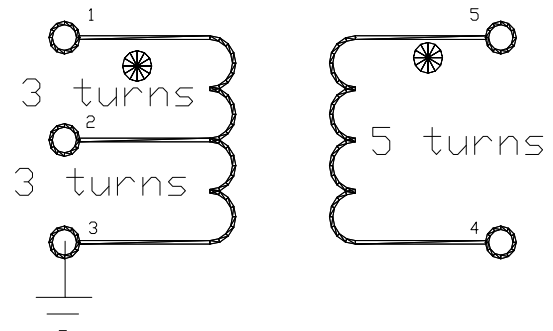


SUGGEST SOLDER FOOTPRINT

Description

M/A-COM's MABAES0025 is a 1.5:1 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	5-350	MHz	—	—
Insertion Loss				
5 - 200 MHz	dB	0.7	—	1.0
200-350 MHz	dB	1.4	—	2.0
Amplitude Imbalance				
5-200 MHz	dB	0.2	—	0.5
200-350 MHz	dB	0.4	—	1.0
Phase Imbalance				
5 - 200 MHz	°	1.0°	—	2.0°
200-350 MHz	°	2.0°	—	3.0°

ADVANCED: Data Sheets contain information regarding a product M/A-COM Technology Solutions is considering for development. Performance is based on target specifications, simulated results, and/or prototype measurements. Commitment to develop is not guaranteed.

PRELIMINARY: Data Sheets contain information regarding a product M/A-COM Technology Solutions has under development. Performance is based on engineering tests. Specifications are typical. Mechanical outline has been fixed. Engineering samples and/or test data may be available. Commitment to produce in volume is not guaranteed.

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Absolute Maximum Ratings

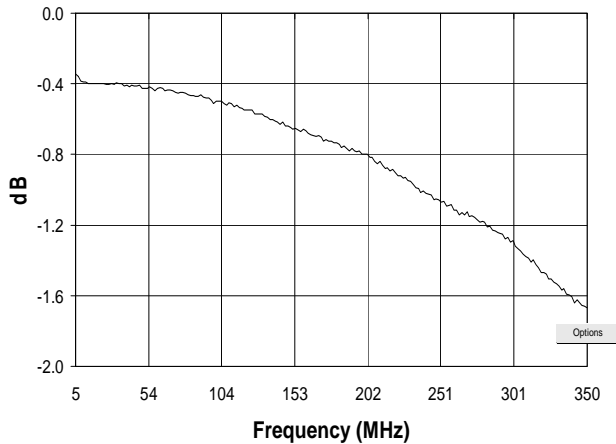
Parameter	Absolute Maximum
RF Power	250 mW
DC Current	200 mA
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C

Functional Configuration

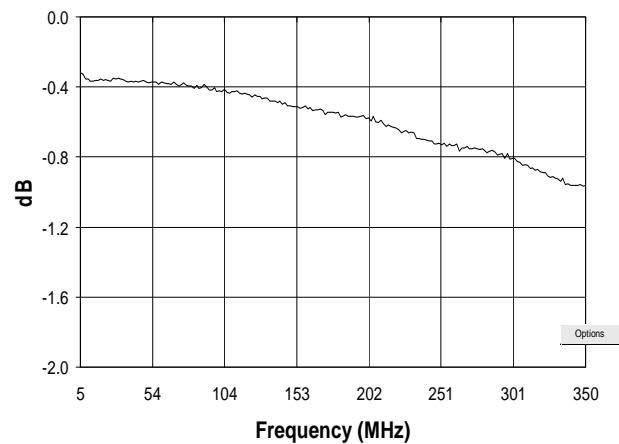
Function	Pin No.
Primary Dot	1
Primary CT	2
Primary	3
Secondary	4
Secondary Dot	5
Secondary CT	—
Case Ground	—
Not Connected	—

Typical Performance @ +25°C

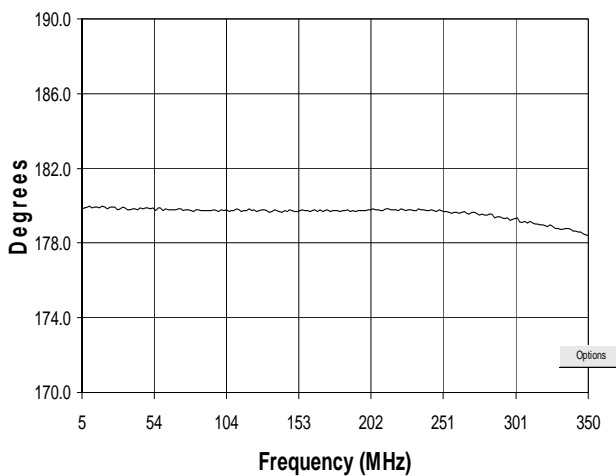
Primary to Secondary Dot Insertion Loss



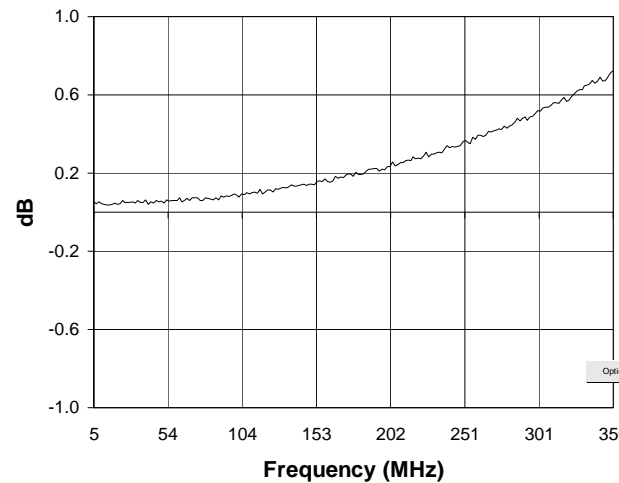
Primary to Secondary Insertion Loss



Phase Imbalance



Amplitude Imbalance



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