MABAES0025

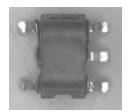
E-Series RF 1.5:1 Transformer 5 - 350 MHz

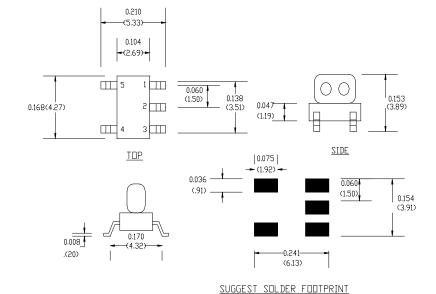


SM-138 Package

Features

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

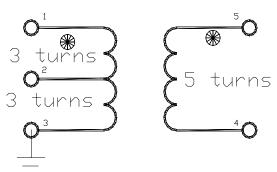




Description

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	0	1.0°	—	2.0°
200-350 MHz	0	2.0°	—	3.0°

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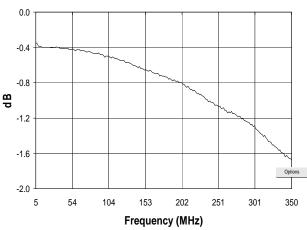
Absolute Maximum Ratings

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

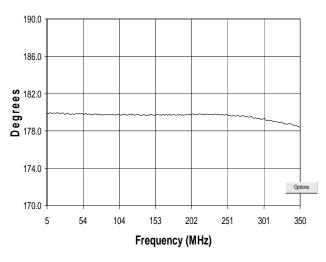
Function	Pin No.
Primary Dot	1
Primary CT	2
Primary	3
Secondary	4
Secondary Dot	5
Secondary CT	—
Case Ground	—
Not Connected	—

Typical Performance @ +25°C

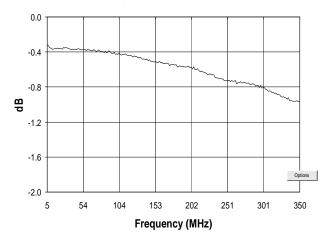


Primary to Secondary Dot Insertion Loss

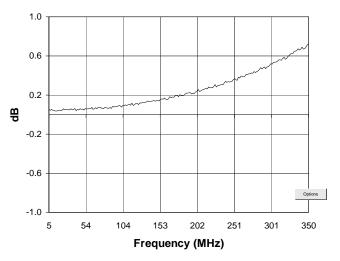
Phase Imbalance



Primary to Secondary Insertion Loss



Amplitude Imbalance



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