

E-Series RF 2:1 Transformer 3-300 MHz

M/A-COM Products
Advanced - Rev. V1

Features

- 2:1 Impedance Ratio
- Surface Mount
- Tape and reel packaging available
- 260°C Reflow Compatible
- RoHS* compliant

Description

M/A-COM's MABA-009250-CT0068 is a RoHS Compliant 2:1 RF transformer in a low cost, surface mount package. Typical applications include single to balanced mode conversion and impedance matching.

The MABA-009250-CT0068 is available in a SM-22 surface mount package and is designed to be utilized in both RoHS and standard reflow profiles. Parts are packaged in tape & reel.

Ordering Information

Part Number	Package
MABA-009250-CT0068	Tape and Reel (2000 piece Reel)

Product Image



Electrical Specifications: $T_A = 25^\circ\text{C}$, $Z_0 = 50\Omega$

Parameter	Test Conditions	Frequency	Units	Min	Typ	Max
RF Frequency	—	3 - 300	MHz	—	—	—
Insertion Loss	—	3 - 300	dB	—	0.7	1.6
Amplitude Imbalance	—	3 - 300	dB	—	0.4	1.2
Phase Imbalance	—	3 - 300	Degrees	—	—	2.0

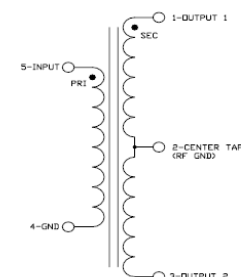
Pin Configuration

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

Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Power	250 mW
DC Current	240 mA ²
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +125°C

Schematic



1. Exceeding any one or combination of these limits may cause permanent damage to this device.
2. M/A-COM does not recommend sustained operation near these survivability limits.

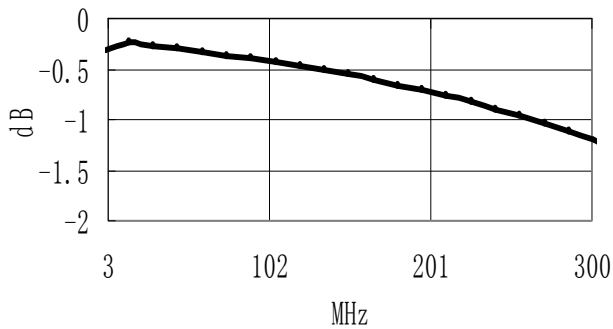
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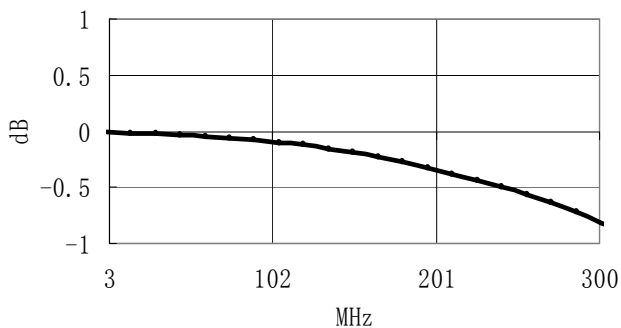
Typical Performance Curves at +25°C

SM - 22 Package

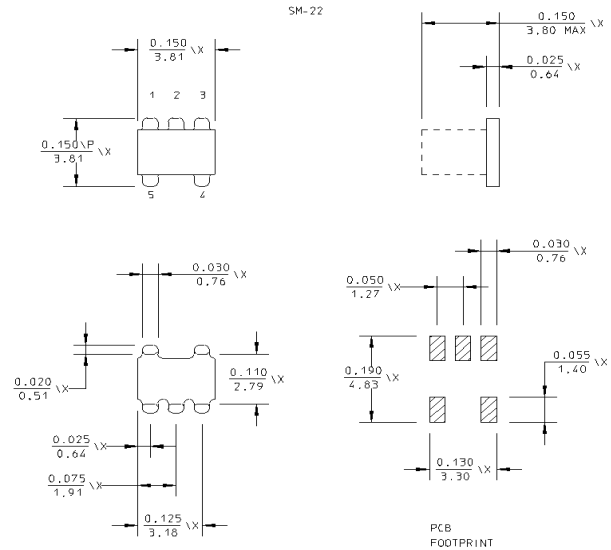
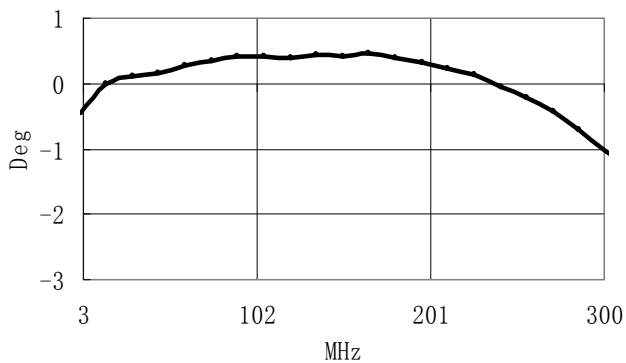
Insertion Loss



Amplitude Balance



Phase Balance



Dimensions are inches (millimeters) ± 0.015 (0.38) unless otherwise specified.