

1:3 Auto-Transformer 5 - 2400 MHz

V3

Features

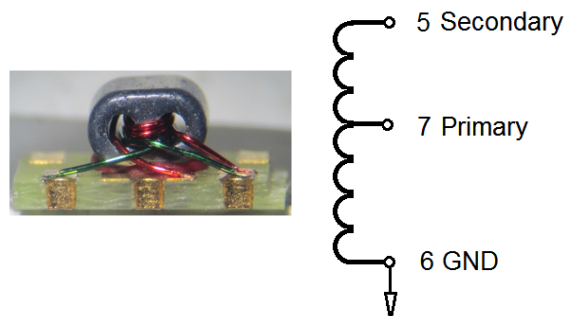
- Surface Mount
- 1:3 Impedance
- Available on Tape and Reel
- RoHS Compliant
- 260°C Reflow Compatible

Description

The MABA-010386-CA3A40 is a 1:3 impedance ratio auto transformer assembled in a surface mount package.

Ideally suited for CATV Broadband applications.

Functional Schematic



Pin Configuration

Pin No.	Function
1 - 4	Not Connected
5	Secondary
6	Ground
7	Primary

Electrical Specifications: Freq. = 5 - 2400 MHz, $T_A = 25^\circ\text{C}$, $Z_0 = 75\ \Omega$, $P_{in} = 0\ \text{dBm}$

Parameter	Conditions	Units	Min.	Typ.	Max.
Impedance Ratio	—	—	—	1:3	—
Main Line Loss	5 - 1000 MHz 1000 - 2400 MHz	dB	—	1.5 2.5	2.0 4.5

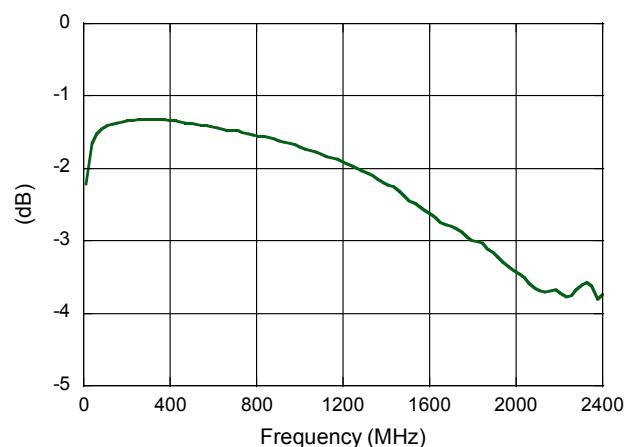
Absolute Maximum Ratings

Parameter	Absolute Maximum
Input RF Power	250 mW
DC Current	200 mA
Operating Temperature	-40°C to $+85^\circ\text{C}$
Storage Temperature	-55°C to $+125^\circ\text{C}$

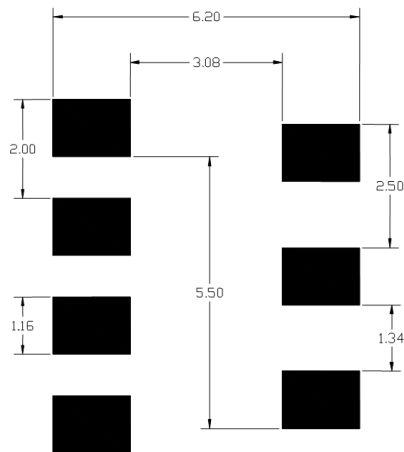
Ordering Information

Part Number	Description
MABA-010386-CA3A40	2000 piece reel

Main Line Loss



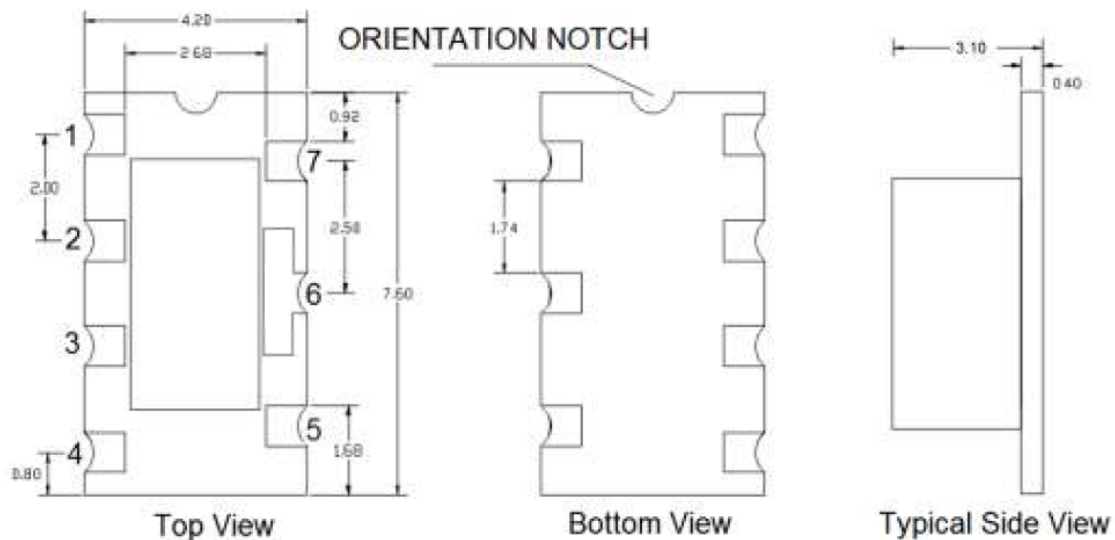
Recommended Footprint



Tape & Reel Information

Parameter	Units	Value
Qty per reel	-	2000
Reel Size	mm	330
Tape Width	mm	16.00
Pitch	mm	8.00
A ₀	mm	4.5
B ₀	mm	8.0
K ₀	mm	3.2
Orientation	Reference Application Note ANI-019	

Outline Drawing



Dimensions in mm.
Tolerance: ± 0.2 mm unless otherwise noted.
Model number and lot code printed on reel.
Finish: Electroless Nickel Immersion Gold.

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