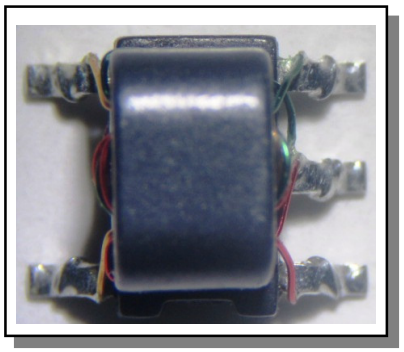
MABA-011040

1:6 Transformer
1 - 300 MHz

V1

Features

- 1:6 impedance
- Surface mount
- Available on tape and reel
- 260º reflow compatible
- RoHS Compliant and Pb free
- Excellent temperature stability
- Suitable for all CATV, Broadband and FTTX applications



Description

MACOM's MABA-011040 is a 1:6 Transformer. This Transformer is ideally suited for CATV and Broadband applications.

Parameter	Conditions	Units	Min	Typ	Max
Frequency Range		MHz	1		300
Impedance		Ω		50	
Impedance Ratio				1:6	
Insertion Loss 1 (Pin2 - Pin5)	1 - 5 MHz 5 - 150 MHz 150 - 300 MHz	dB dB dB	- - -	0.6 0.7 0.9	1.4 1.0 1.4
Insertion Loss 2 (Pin2 - Pin3)	1 - 5 MHz 5 - 150 MHz 150 - 300 MHz	dB dB dB	- - -	0.7 0.7 0.8	1.2 1.0 1.1
Amplitude Balance	1 - 300 MHz	dB	-	0.07	±0.4
Phase Balance	1 - 150 MHz 150 - 300 MHz	º º	- -	0.4 1.0	±2.0 ±3.5
Input Return Loss (Pin2)	1 - 5 MHz 5 - 150 MHz 150 - 300 MHz	dB dB dB	13 20 15	24 29 24	- - -

- **North America** Tel: 800.366.2266 / Fax: 978.366.2266
- **Europe** Tel: 44.1908.574.200 / Fax: 44.1908.574.300
- **Asia/Pacific** Tel: 81.44.844.8296 / Fax: 81.44.844.8298

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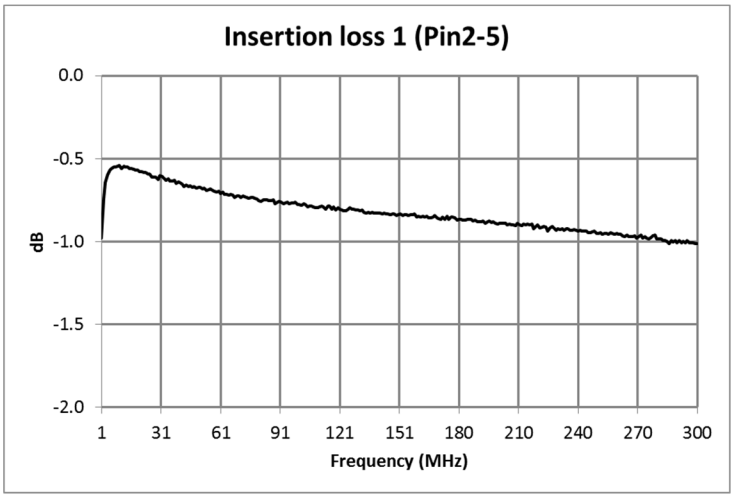

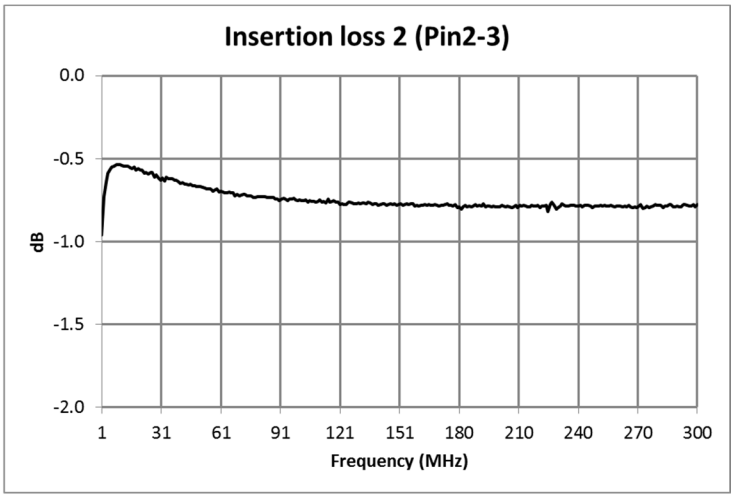

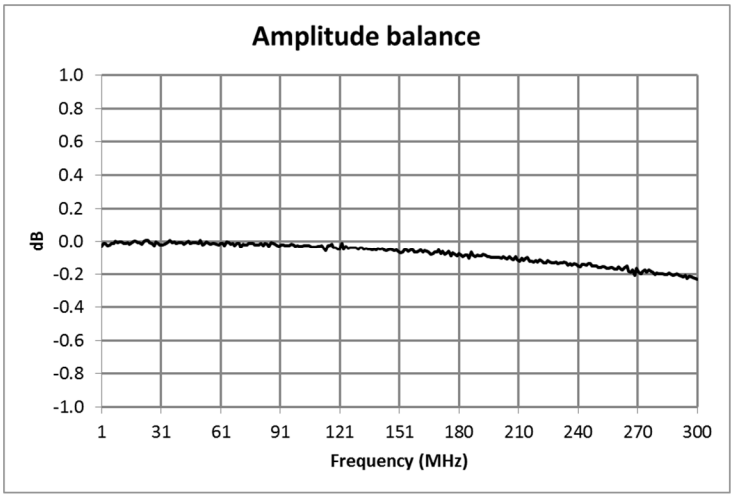

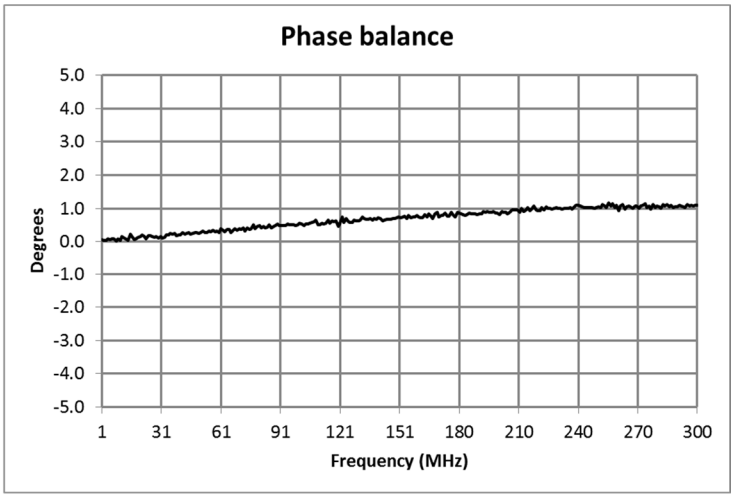

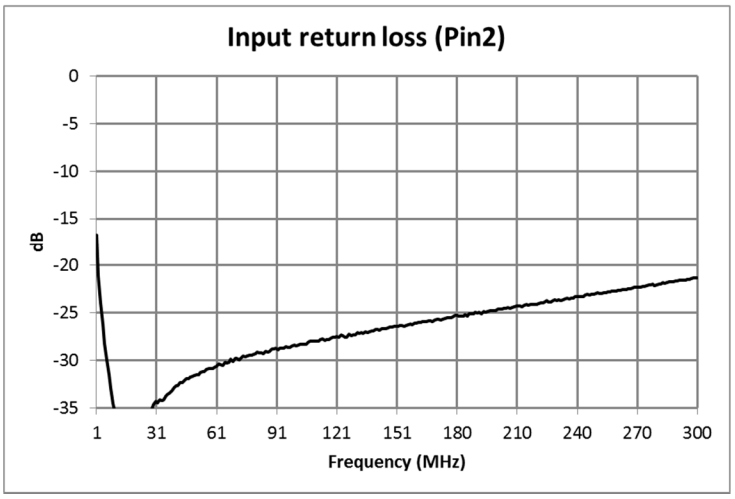

Electrical Specifications: Z_0 = 50Ω, T_A = 25°C, P_{in} = 0dBm

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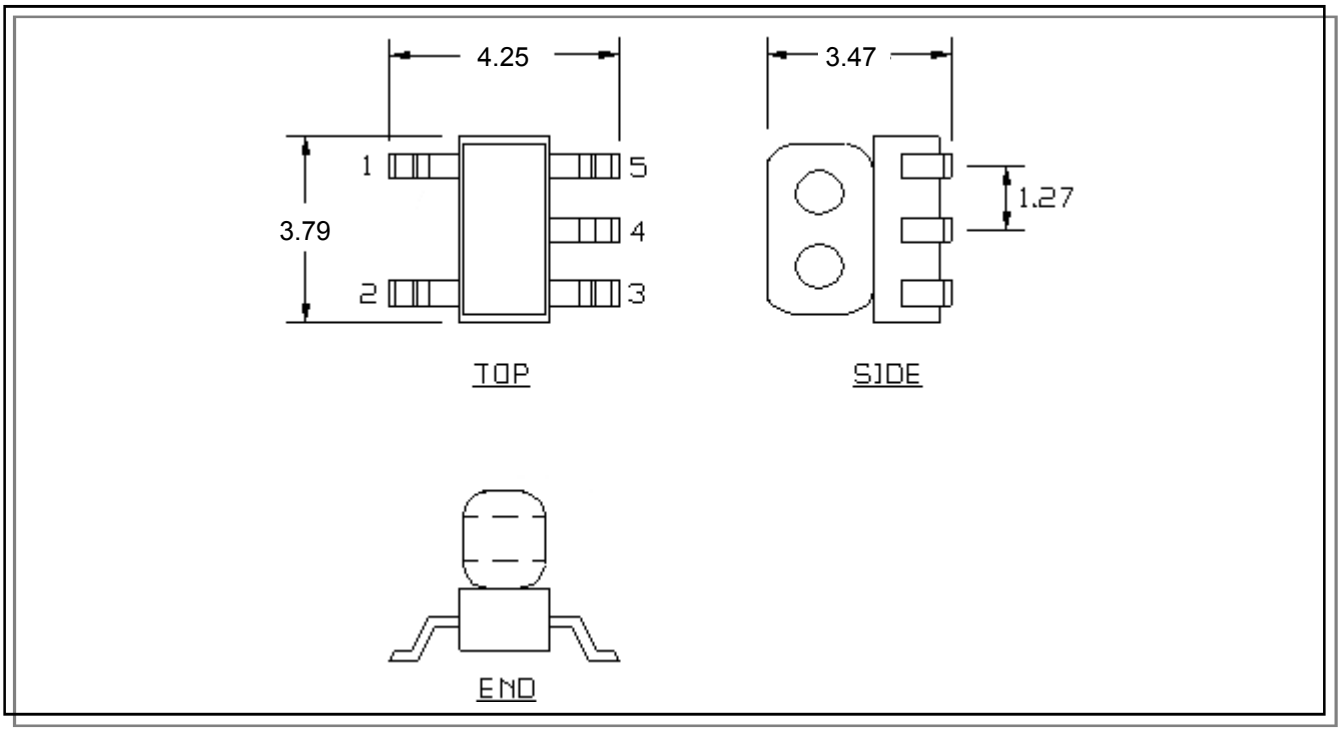
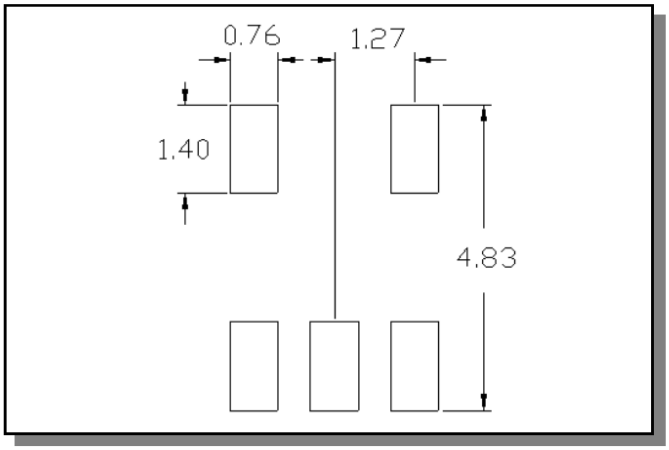
Outline Drawing



1. Dimensions in mm.
2. Tolerance: ±0.2mm unless otherwise noted.
3. Model number and lot code are printed on the reel.
4. Lead plating (CuSn6) Lead finish SAC-305.

Recommended Footprint



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Tape & Reel Information

Parameter	Units	Value
Qty per reel	-	2000
Reel Size	mm	330
Tape Width	mm	12.00
Pitch	mm	8.00
Ao	mm	4.40
Bo	mm	4.00
Ko	mm	3.90
Orientation	-	F26
Reference Application Note ANI-019 for orientation		

Ordering Information

Part Number	Description
MABA-011040	Tape & Reel

Recommended Maximum Ratings

Parameter	Units	Min	Max
Input Power	mW		500
DC Current	mA		500
Operating Temperature Range	ºC	-40	+125

Full temperature plots available on request

Pin Configuration

Pin No.	Function
1	Ground
2	Input
3	Output 2
4	Ground
5	Output 1

Application circuit