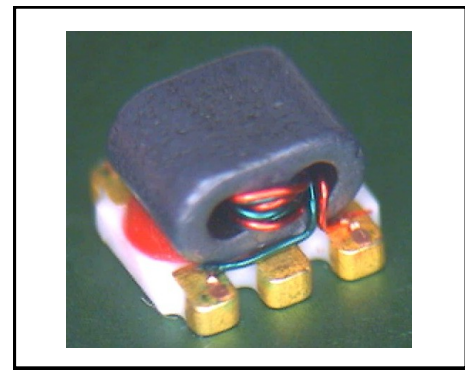


## Transformer, 1:1 Transmission Line 46MHz - 1002MHz

Rev. V2

### Features

- Surface mount
- Wide Frequency Range
- 260°C reflow compatible
- RoHS\* compliant and lead free
- Available on Tape and Reel



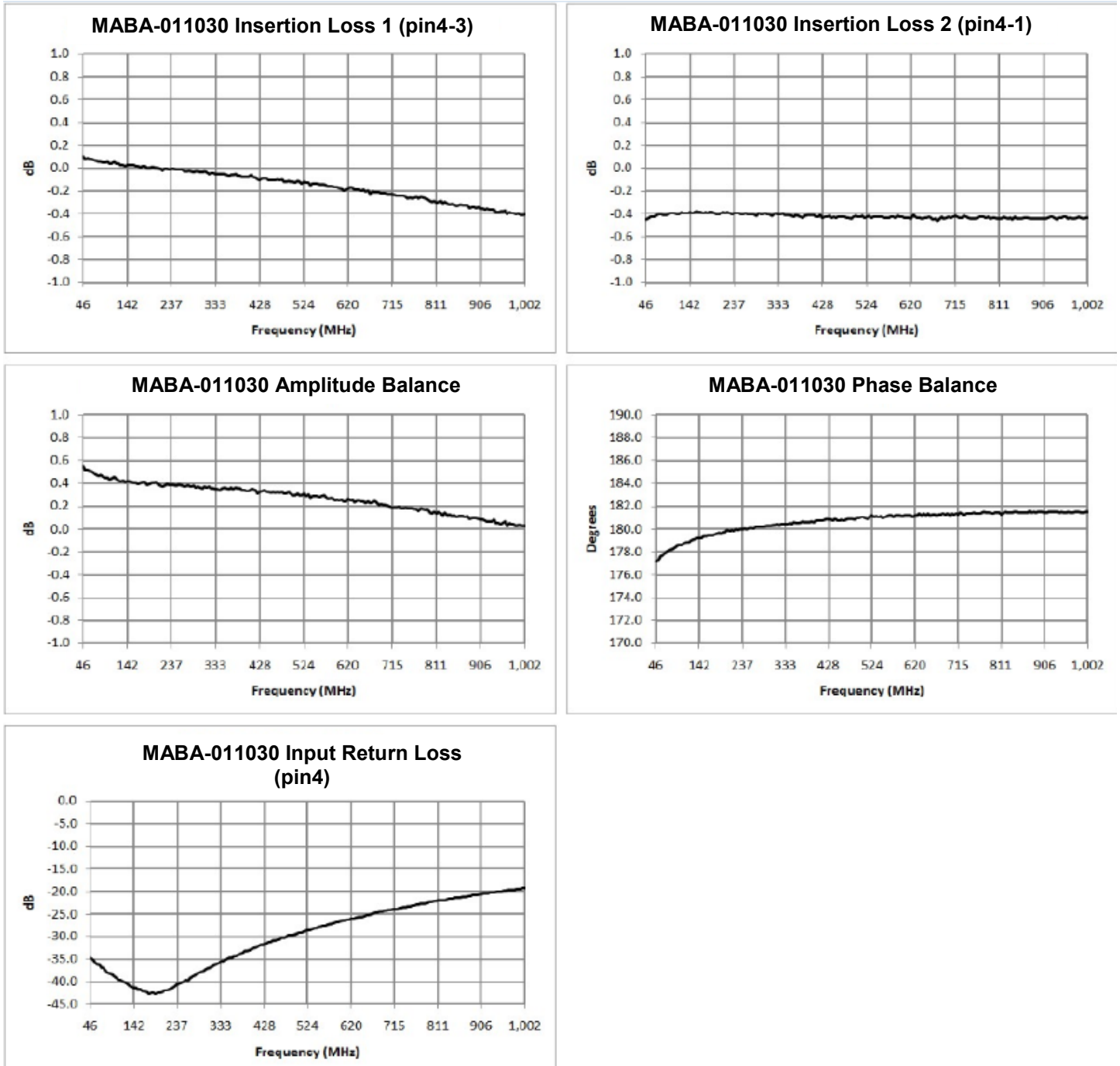
**Electrical Specifications:**  $Z_0 = 75\Omega$ ,  $T_A = 25^\circ\text{C}$ ,  $P_{in} = 0\text{dBm}$

Parameter	Conditions	Units	Min	Typ	Max
Frequency Range		MHz	46		1002
Impedance		$\Omega$		75	
Impedance Ratio				1:1	
Insertion Loss (Pin4 - Pin3)	46 - 1002MHz	dB	-	0.1	0.6
Insertion Loss (Pin4 - Pin1)	46 - 1002MHz	dB	-	0.4	0.7
Amplitude Balance	46 - 1002MHz	dB	-0.8	0.3	0.8
Phase Balance	46 - 100MHz	$^\circ$	-5.0	2.4	5.0
	100 - 1002MHz	$^\circ$	-2.5	1.2	2.5
Input Return Loss (Pin4)	46 - 300MHz	dB	25	42	-
	300 - 1002MHz	dB	17.5	30	-

## Transformer, 1:1 Transmission Line 46MHz - 1002MHz

Rev. V2

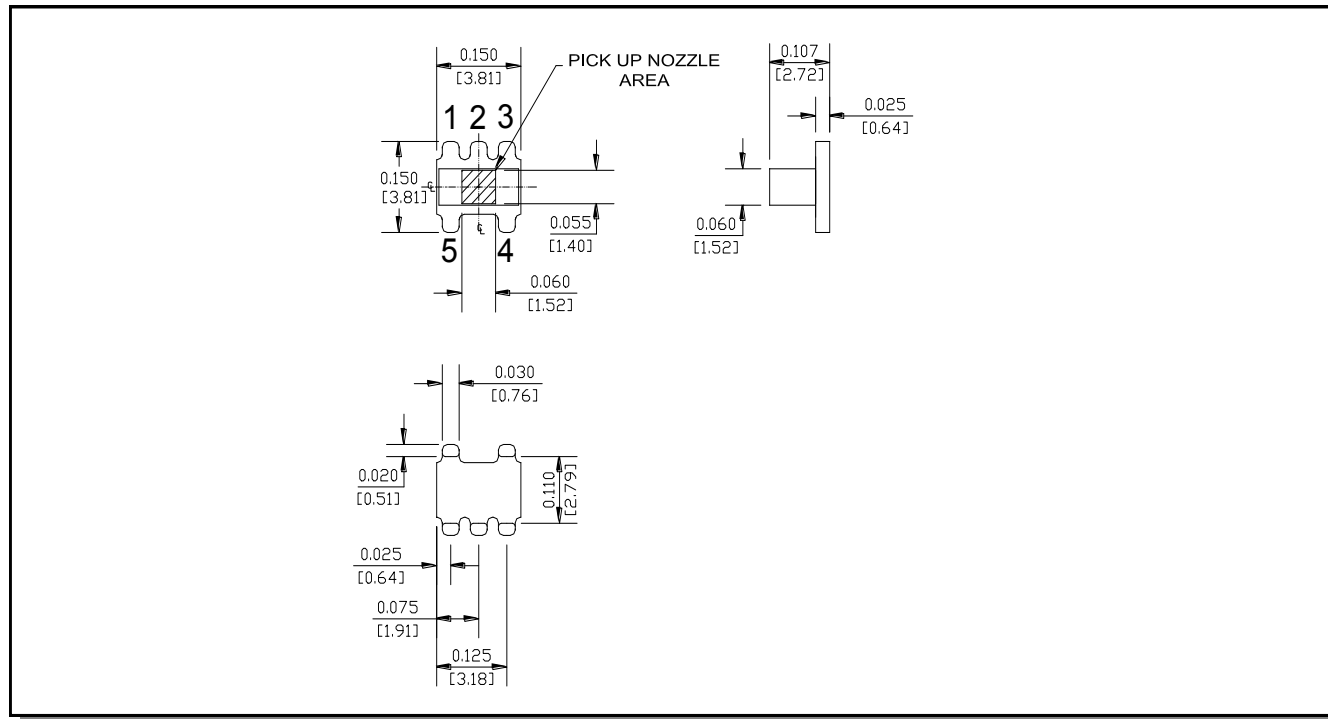
Electrical Specifications:  $Z_0 = 75\Omega$ ,  $T_A = 25^\circ\text{C}$ ,  $P_{in} = 0\text{dBm}$



## Transformer, 1:1 Transmission Line 46MHz - 1002MHz

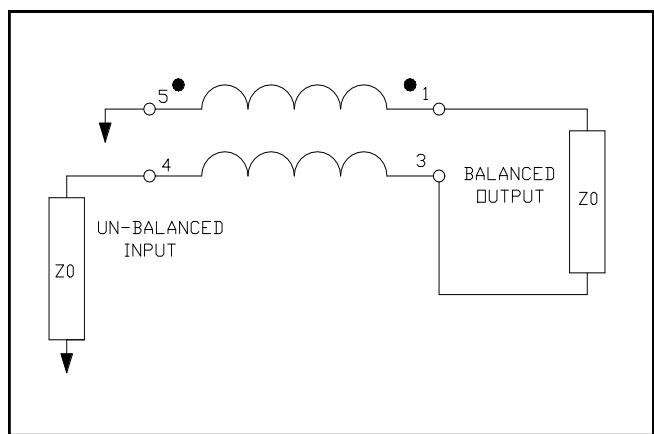
Rev. V2

### Outline Drawing

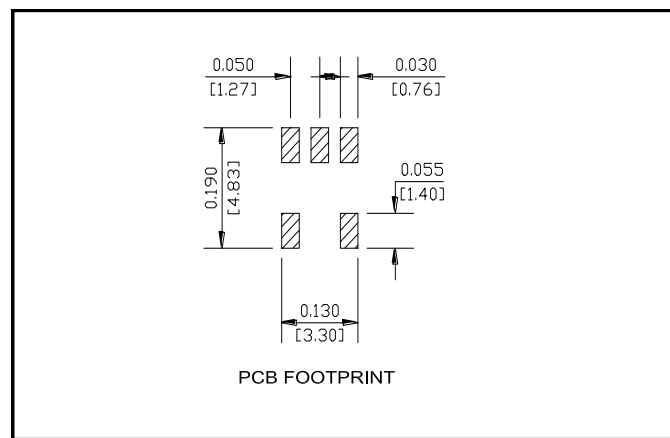


1. Dimensions in mm.
2. Tolerance:  $\pm 0.2\text{mm}$  unless otherwise noted.
3. Model number and lot code printed on reel.
4. Plating finish: ENIG on both sides

### Application Circuit



### Recommended Footprint



## Tape & Reel Information

Parameter	Units	Value
Qty per reel	-	2000
Reel size	mm	330
Tape width (W)	mm	12.00
Pitch (P <sub>1</sub> )	mm	8.00
A <sub>0</sub>	mm	4.05
B <sub>0</sub>	mm	4.30
K <sub>0</sub>	mm	3.45
Orientation	-	F5
Reference Application note ANI-019 for orientation		

## Ordering Information

Part Number	Description
MABA-011030	Tape & Reel

## Recommended Maximum Ratings

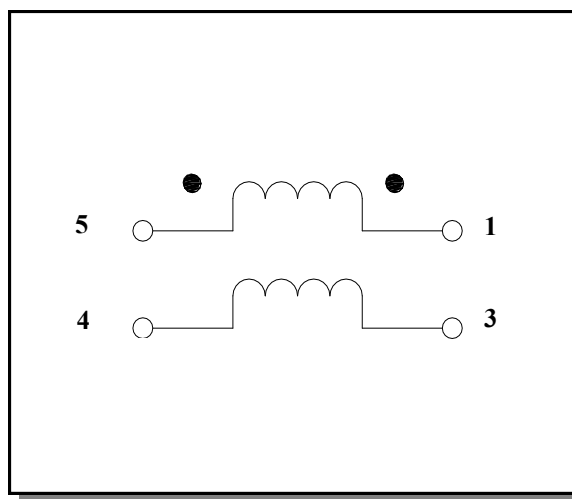
Parameter	Units	Min	Max
Input Power	mW		+24dBm (250mW)
DC Current (tested at 5V)	mA		600
Operating Temperature Range	°C	-40	+85

Temperature data available on request

## Pin Configuration

Pin No.	Function
1	Secondary Dot (Output 2)
2	Not Used (Ground)
3	Secondary (Output 1)
4	Primary (input)
5	Primary Dot (ground)

## Schematic



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