



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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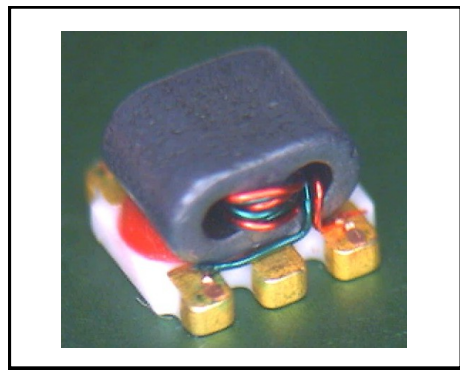


Transformer, 1:1 Transmission Line 46MHz - 1002MHz

Rev. V2

Features

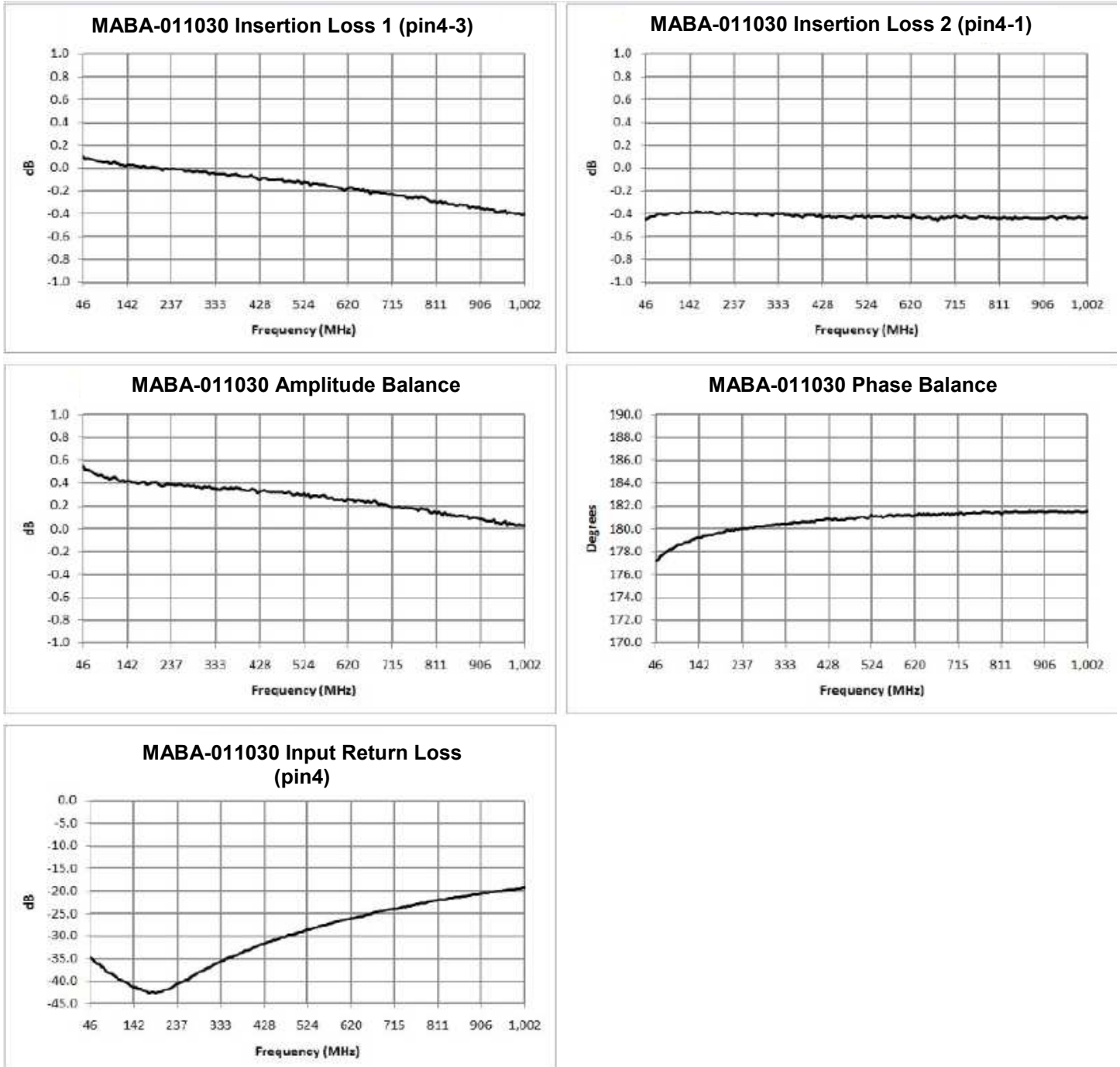
- Surface mount
- Wide Frequency Range
- 260°C reflow compatible
- RoHS* compliant and lead free
- Available on Tape and Reel



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		Ω		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	-

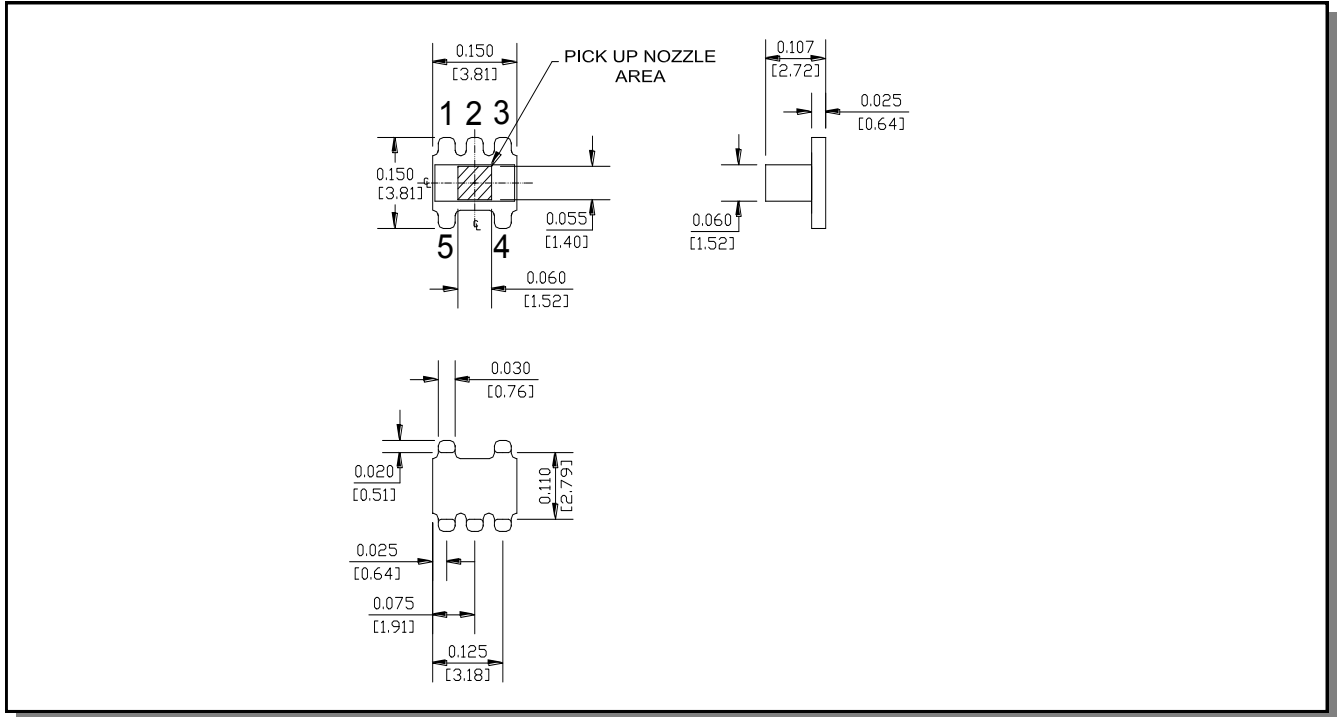
Electrical Specifications: $Z_0 = 75\Omega$, $T_A = 25^\circ\text{C}$, $P_{in} = 0\text{dBm}$



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

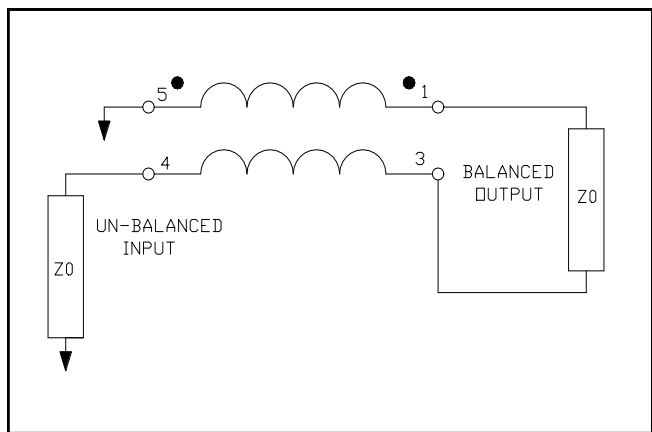
Rev. V2

Outline Drawing

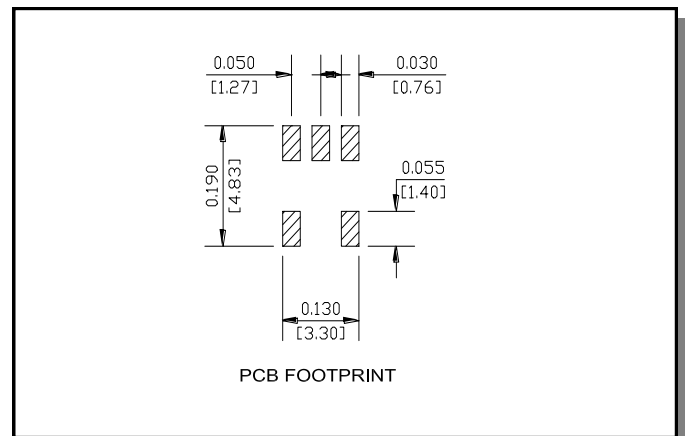


1. Dimensions in mm.
2. Tolerance: $\pm 0.2\text{mm}$ unless otherwise noted.
3. Model number and lot code printed on reel.
4. Plating finish: ENIG on both sides

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 ₁)	mm	8.00
A ₀	mm	4.05
B ₀	mm	4.30
K ₀	mm	3.45
Orientation	-	F5
Reference Application note ANI-019 for orientation		

Ordering Information

Part Number	Description
MABA-011030	Tape & Reel

Recommended Maximum Ratings

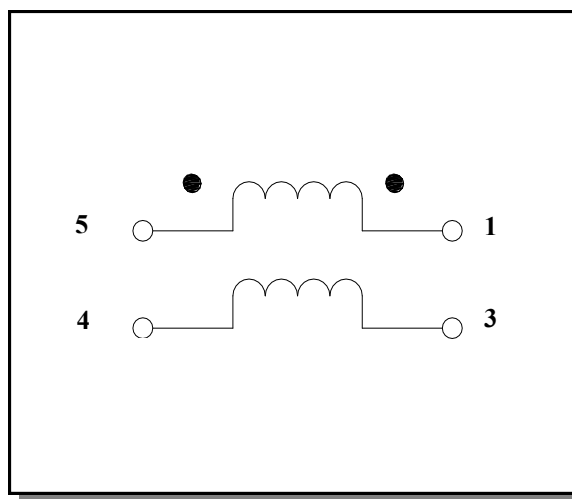
Parameter	Units	Min	Max
Input Power	mW		+24dBm (250mW)
DC Current (tested at 5V)	mA		600
Operating Temperature Range	°C	-40	+85

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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