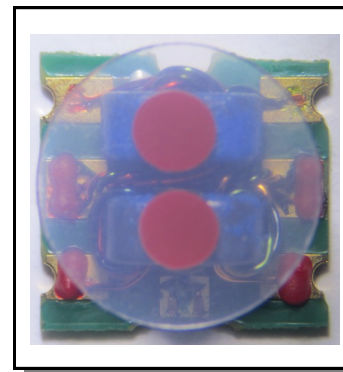


## 1:3 Transformer 5 - 1200 MHz

V2

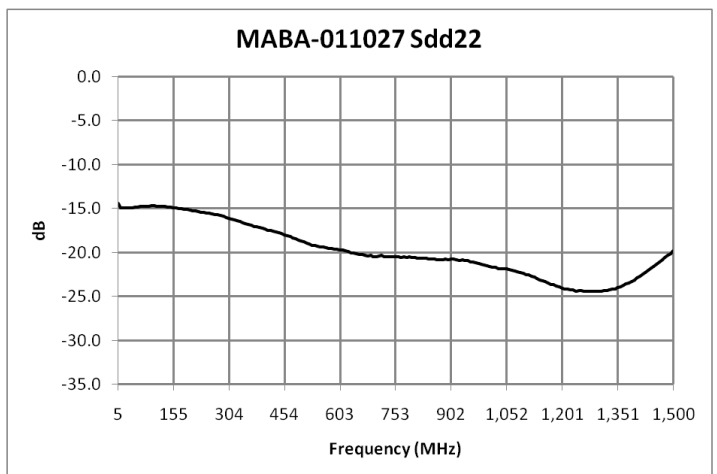
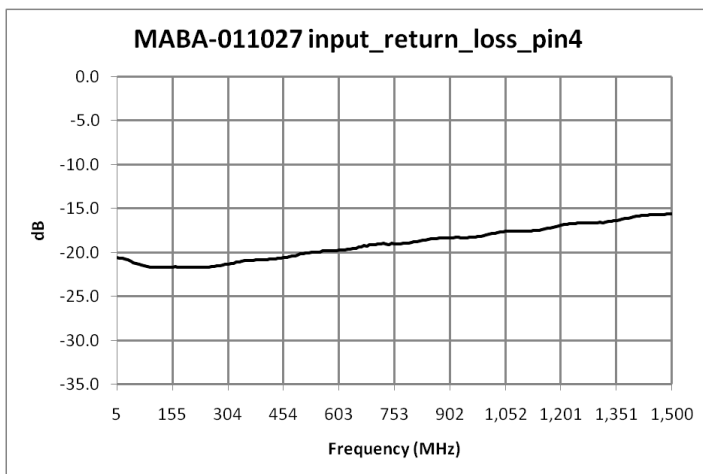
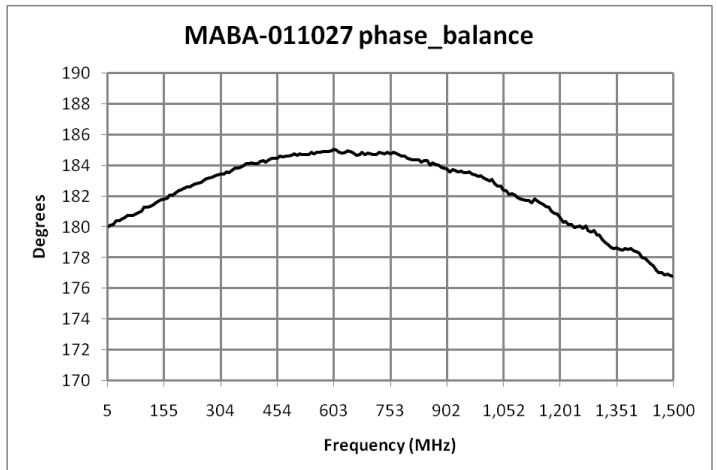
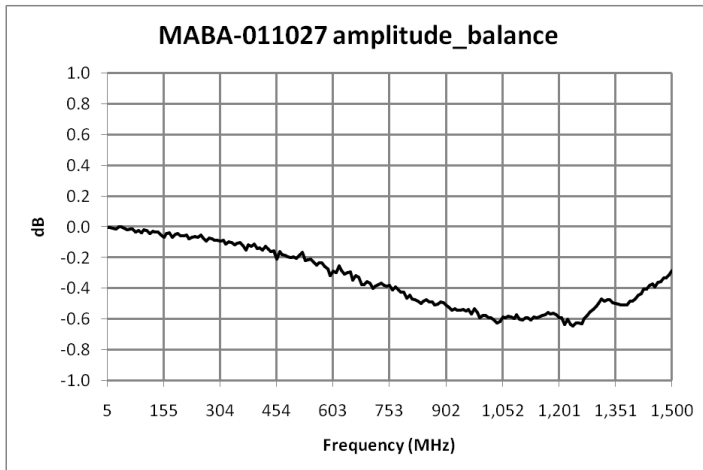
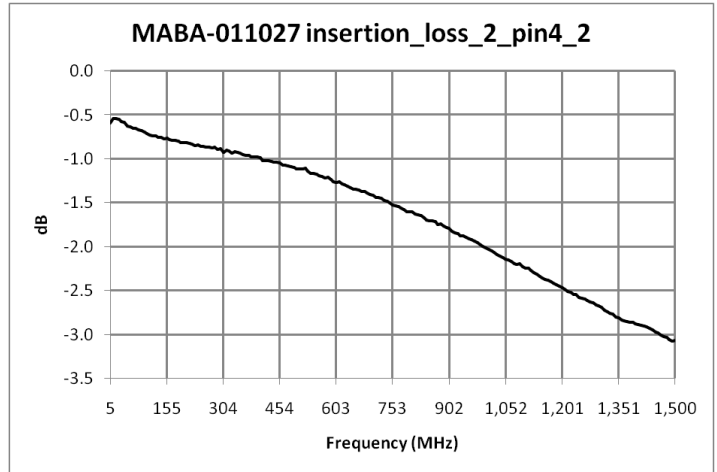
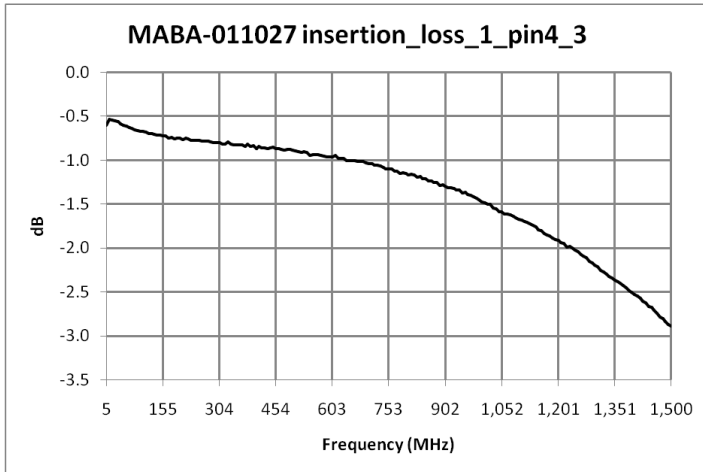
### Features

- 1:3 impedance ratio
- Surface mount
- Available on tape and reel
- 260°C reflow compatible
- RoHS Compliant, lead-free
- Excellent temperature stability
- Can be used on 50Ω and 75Ω



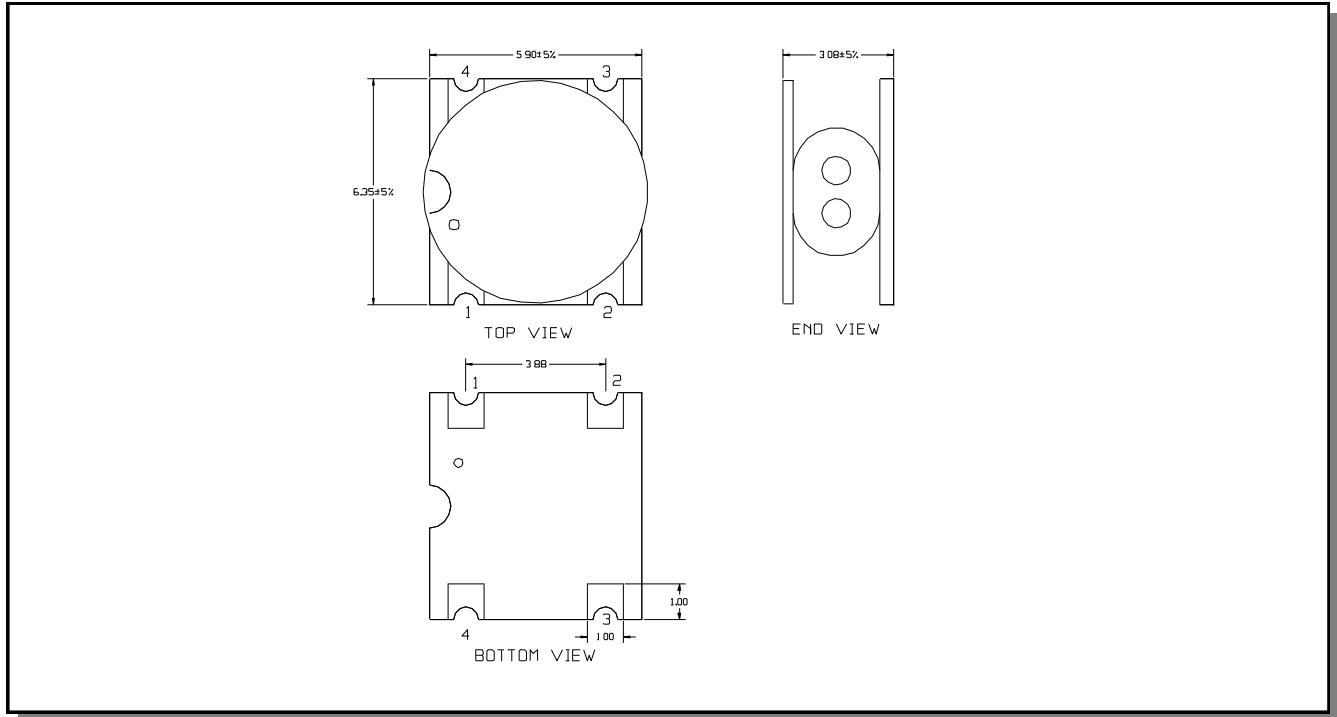
### Electrical Specifications: $Z_0 = 75\Omega$ , $T_A = 25^\circ\text{C}$ , $P_{in} = 0\text{dBm}$

Parameter	Conditions	Units	Min	Typ	Max
Frequency Range		MHz	5		1200
Impedance		$\Omega$	-	75	-
Impedance Ratio			-	1:3	-
Insertion Loss 1 Pin 4 - Pin 3	5 - 50 MHz	dB	-	0.6	1.2
	50 - 1000 MHz	dB	-	2.1	2.6
	1000 - 1200 MHz	dB	-	2.4	3.2
Insertion Loss 2 Pin 4 - Pin 2	5 - 50 MHz	dB	-	0.6	1.2
	50 - 1000 MHz	dB	-	0.7	2.0
	1000 - 1200 MHz	dB	-	1.7	2.6
Amplitude Balance	5 - 550MHz	dB	-	0.1	0.7
	550 - 660MHz	dB	-	0.4	0.9
	660 - 870 MHz	dB	-	0.5	1.2
	870 - 1200 MHz	dB	-	0.5	1.5
Phase Balance	5 -50 MHz	dB	-	2	5.0
	50 - 1200 MHz	dB	-	4	10.0
Input Return Loss	5 - 50 MHz	dB	19	21	-
	50 - 780 MHz	dB	15	18	-
	780 - 1000 MHz	dB	14	16	-
	1000 - 1200 MHz	dB	13	15	-



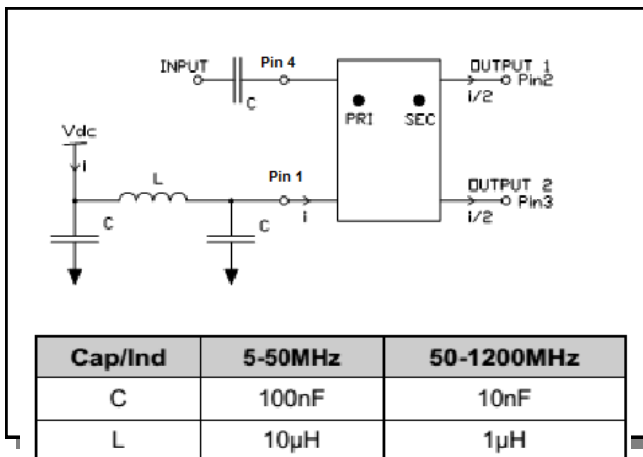
Electrical Specifications:  $Z_0 = 75\Omega$ ,  $T_A = 25^\circ\text{C}$ ,  $P_{in} = 0\text{dBm}$

## Outline Drawing

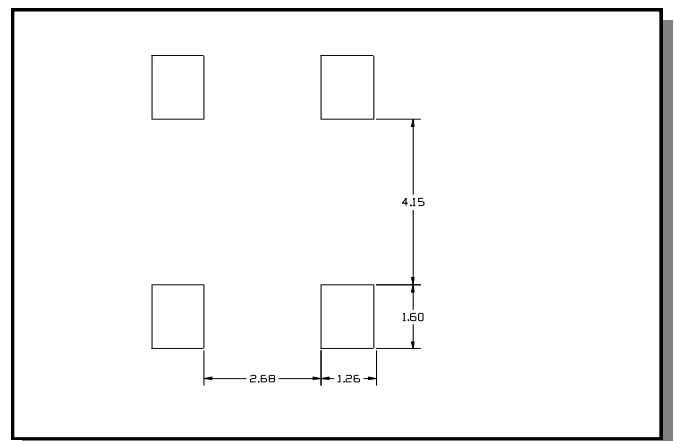


1. Dimensions in mm.
2. Tolerance:  $\pm 0.2$ mm unless otherwise noted.
3. Model number and lot code are printed on the reel.
4. Finish: Electroless nickel immersion gold (ENIG)

## Recommended DC bias circuit



## Recommended Footprint



## Tape & Reel Information

Parameter	Units	Value
Qty per reel	-	900
Reel Size	mm	330
Tape Width	mm	16.00
Pitch	mm	12.00
Ao	mm	6.60
Bo	mm	6.40
Ko	mm	3.50
Orientation	-	F27
Reference Application Note ANI-019 for orientation		

## Ordering Information

Part Number	Description
MABA-011027	Tape & Reel
MABA-011027-TB	Customer Evaluation Board

## Recommended Maximum Ratings

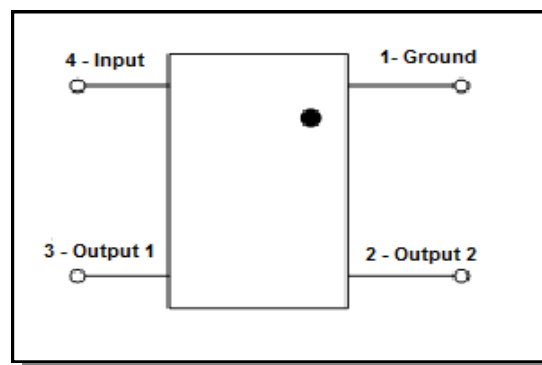
Parameter	Units	Min	Max
Input Power	mW		250
DC Current	mA		200
Operating Temperature Range	°C	-40	+85

Full temperature plots available on request

## Pin Configuration

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

## Schematic



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