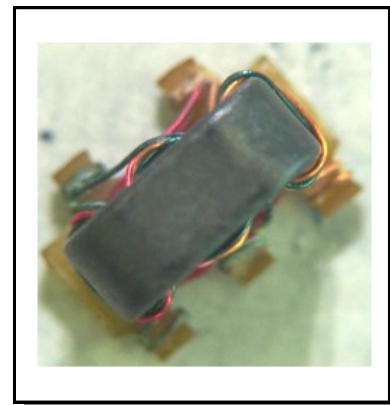


## 1:2.78 Transformer 45 - 1200 MHz

Rev. V2

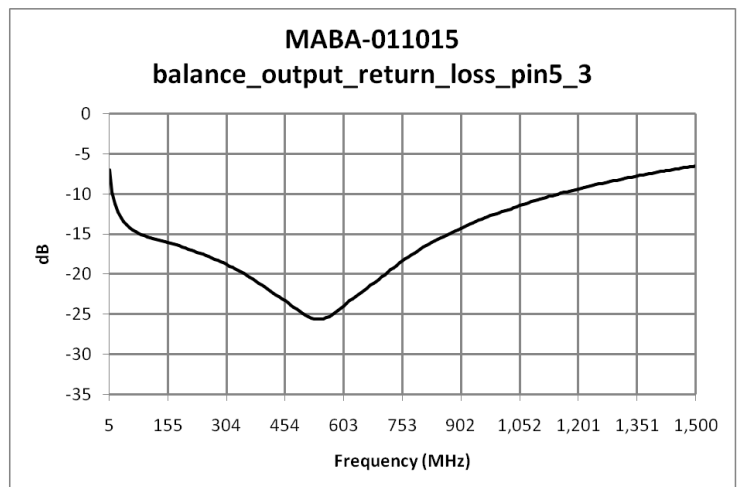
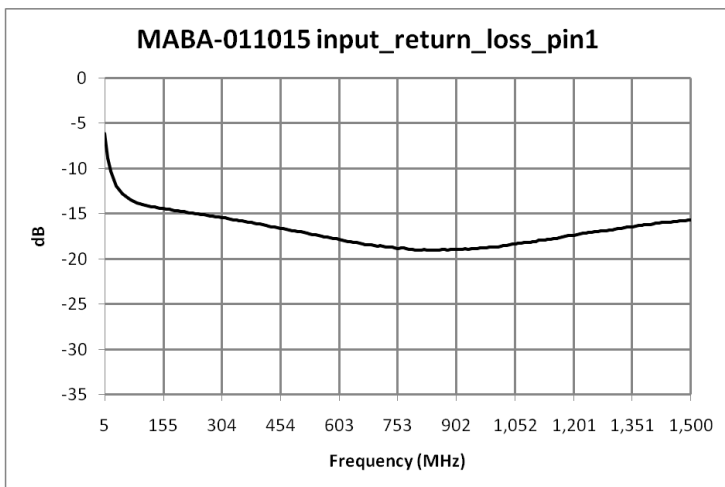
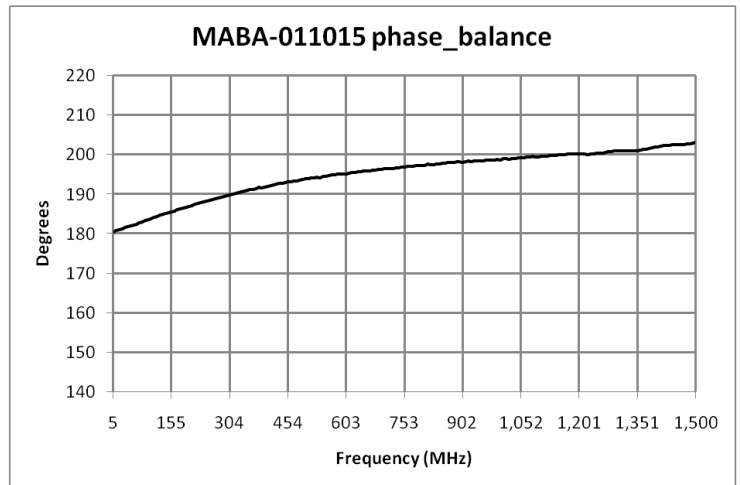
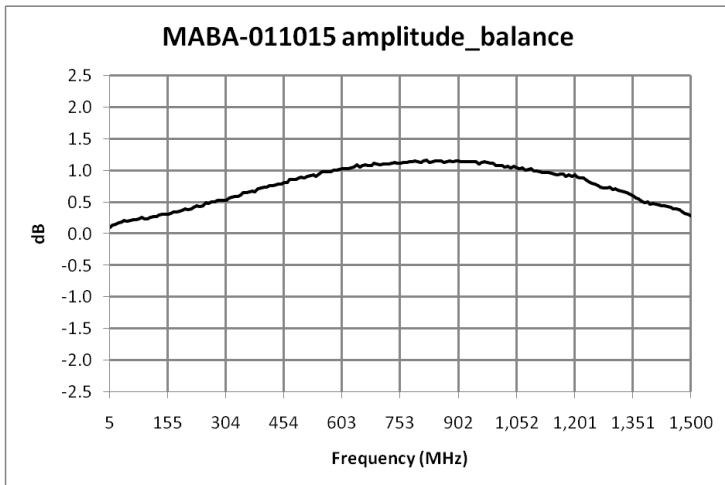
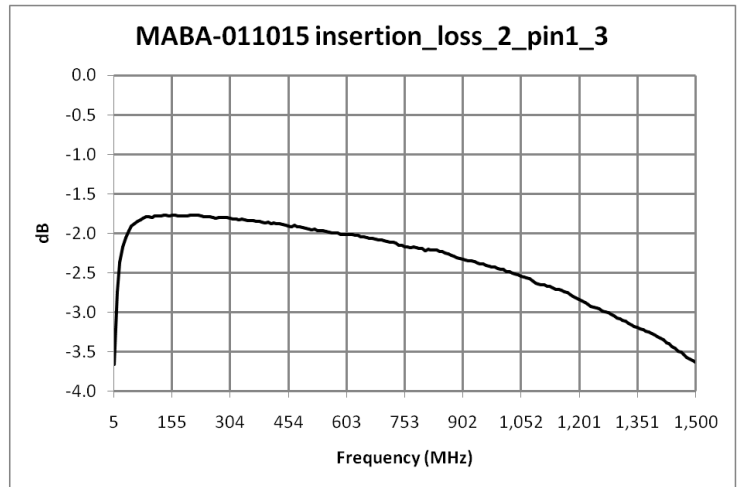
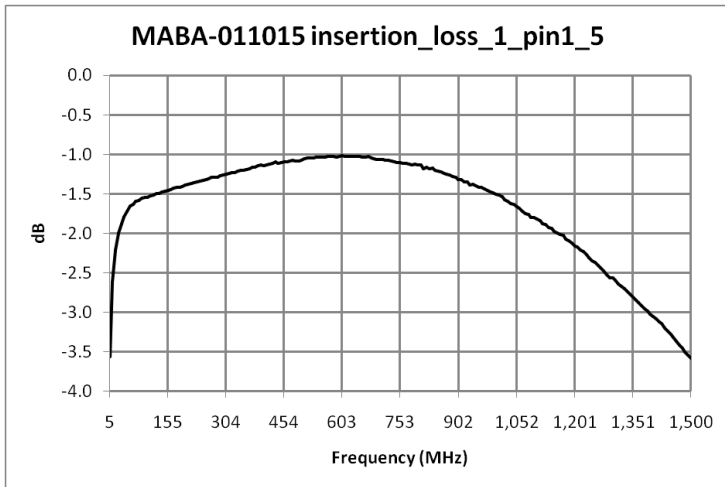
### Features

- 1:2.78 impedance ratio
- Surface mount
- Available on tape and reel
- 260°C reflow compatible
- RoHS Compliant, lead-free
- Excellent temperature stability
- Suitable for all CATV, Broadband and FTTx applications.



**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	45		1200
Impedance		$\Omega$		75	
Impedance Ratio				1:2.78	
Insertion Loss (Pin1 - Pin5)	45 - 200 MHz	dB	-	1.5	2.1
	200 - 600 MHz	dB	-	1.1	1.7
	600 - 1200MHz	dB	-	1.3	3.2
Insertion Loss (Pin1 - Pin3)	45 - 200 MHz	dB	-	1.7	2.3
	200 - 600 MHz	dB	-	1.8	2.4
	600 - 1200MHz	dB	-	2.3	3.7
Amplitude Balance	45 - 200 MHz	dB	-	0.3	$\pm 0.6$
	200 - 600 MHz	dB	-	0.8	$\pm 1.6$
	600 - 1200MHz	dB	-	1.1	$\pm 2.2$
Phase Balance	45 - 200 MHz	$^\circ$	-	5	$\pm 10$
	200 - 600 MHz	$^\circ$	-	12	$\pm 20$
	600 - 1200MHz	$^\circ$	-	18	$\pm 32$
Input Return Loss (Pin1)	45 - 200 MHz	dB	-11	14	-
	200 - 700 MHz	dB	-13	17	-
	700 - 1200 MHz	dB	-12	19	-

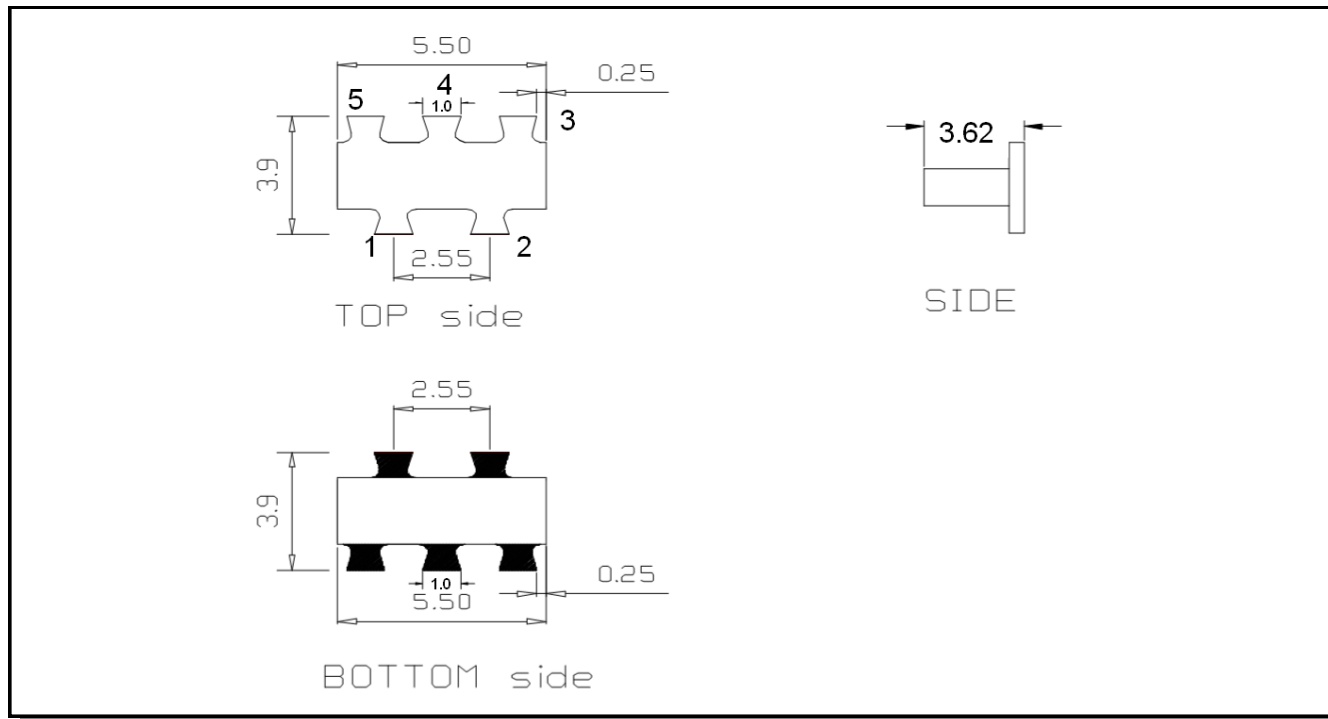


Electrical Specifications:  $Z_0 = 75\Omega$ ,  $T_A = 25^\circ\text{C}$ ,  $P_{in} = 0\text{dBm}$

## 1:2.78 Transformer 45 - 1200 MHz

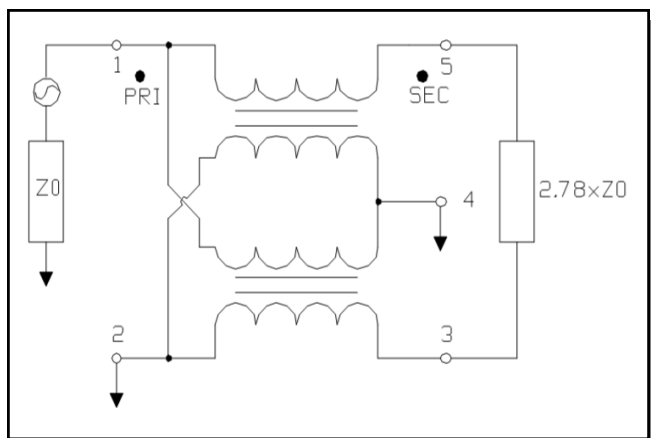
Rev. V2

### Outline Drawing

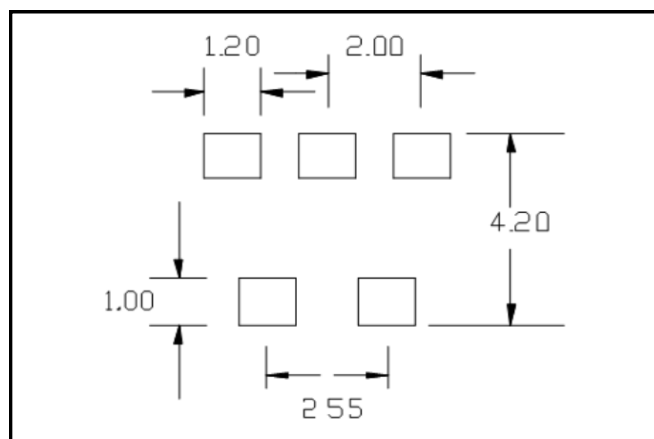


1. Dimensions in mm.
2. Tolerance:  $\pm 0.2$ mm unless otherwise noted.
3. Model number and lot code are printed on the reel.
4. Plating finish: ENIG

### Recommended DC bias circuit



### Recommended Footprint



## 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	4.10
Bo	mm	5.80
Ko	mm	3.90
Orientation	-	F52
Reference Application Note ANI-019 for orientation		

## Ordering Information

Part Number	Description
MABA-011015	Tape & Reel
MABA-011015-TB	Customer Evaluation Board

## Recommended Maximum Ratings

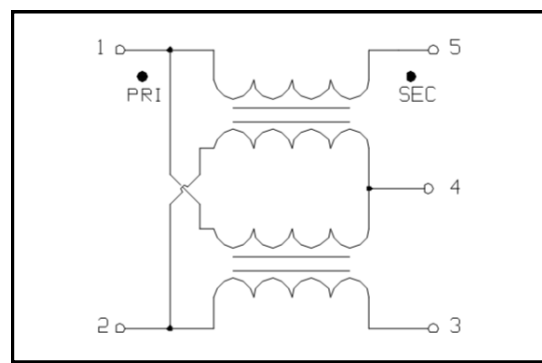
Parameter	Units	Min	Max
Input Power	mW		250
DC Current	mA		200
Operating Temperature Range	°C	-40	+85

Full temperature plots available on request

## Pin Configuration

Pin No.	Function
1	Primary Dot
2	Primary
3	Secondary
4	Centre Tap
5	Secondary Dot

## Schematic



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