

## Features

- Surface Mount
- 2 way 0 degree
- 260°C Reflow Compatible
- RoHS\* Compliant, lead free
- Available on Tape and Reel.

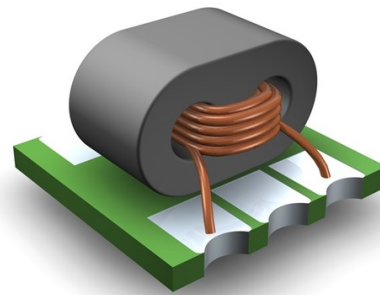
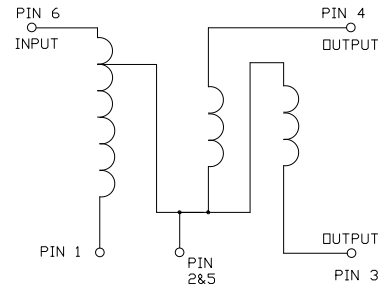
## Ordering Information

Part Number	Description
MAPD-011002	Tape & Reel
MAPD-011002-TB	Customer Evaluation Board

## 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	4.60
Bo	mm	4.60
Ko	mm	3.30
Orientation	-	F18
Reference Application Note ANI-019 for orientation		

## Functional Schematic



## Pin Configuration<sup>3</sup>

	Function
1	Ground
2	External 0.5pF Capacitor
3	Output 2
4	Output 1
5	External 0.5pF Capacitor
6	Input

\* Restrictions on Hazardous Substances, European Union Directive 2011/65/EU.

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

Parameter	Conditions	Units	Min	Typ	Max
Insertion Loss 1 (pin6-pin4)	5 - 500 MHz	dB	-	0.3	0.5
	500 - 1600 MHz	dB	-	1.2	1.7
Insertion Loss 2 (pin6-pin3)	5 - 500 MHz	dB	-	0.5	0.7
	500 - 1200 MHz	dB	-	1.1	1.4
	1200 - 1600 MHz	dB	-	2.0	2.7
Amplitude Balance	5 - 500 MHz	dB	-	0.2	$\pm 0.3$
	500 - 1200 MHz	dB	-	0.3	$\pm 0.6$
	1200 - 1600 MHz	dB	-	0.7	$\pm 1.3$
Phase Balance	5 - 870 MHz	°	-	0.7	$\pm 1.0$
	870 - 1600 MHz	°	-	2.3	$\pm 5.5$
Input Return Loss (pin6)	5 - 500 MHz	dB	20	26	-
	500 - 1000 MHz	dB	15	17	-
	1000 - 1600 MHz	dB	9	12	-
Output Return Loss 1 (pin4)	5 - 870 MHz	dB	20	24	-
	870 - 1600 MHz	dB	12	16	-
Output Return Loss 2 (pin3)	5 - 500 MHz	dB	20	25	-
	500 - 1000 MHz	dB	15	19	-
	1000 - 1600 MHz	dB	11	13	-
Isolation (pin4-pin3)	5 - 300 MHz	dB	30	34	-
	300 - 1200MHz	dB	23	30	-
	1200 - 1600 MHz	dB	20	27	-

Parameter	Units	Min	Max
Input Power	W		1
Internal Load Dissipation	W		0.125
Operating Temperature Range	°C	-40	+85

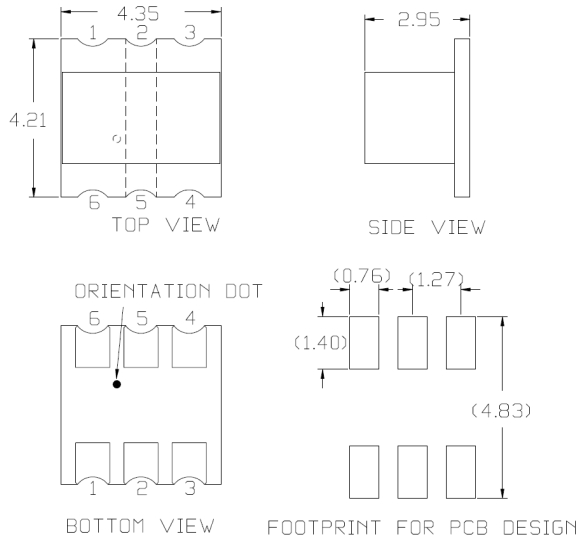
## Handling Procedures

Please observe the following precautions to avoid damage:

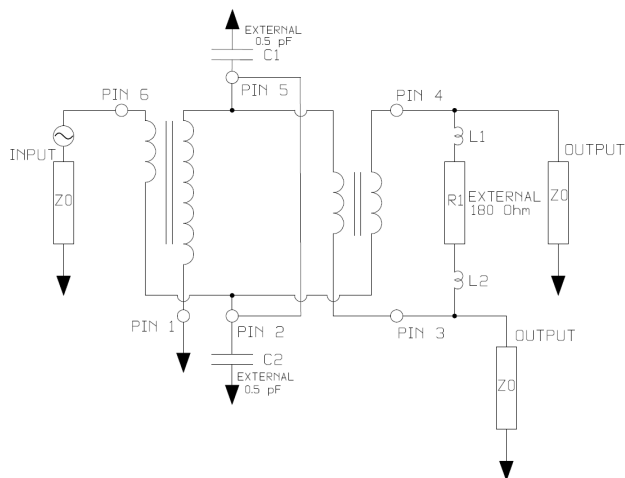
## Static Sensitivity

These electronic devices are sensitive to electrostatic discharge (ESD) and can be damaged by static electricity. Proper ESD control techniques should be used when handling these devices.

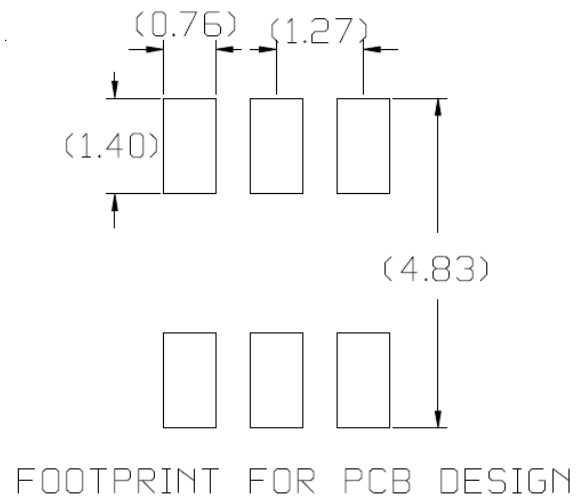
## Outline Drawing



## Application Circuit



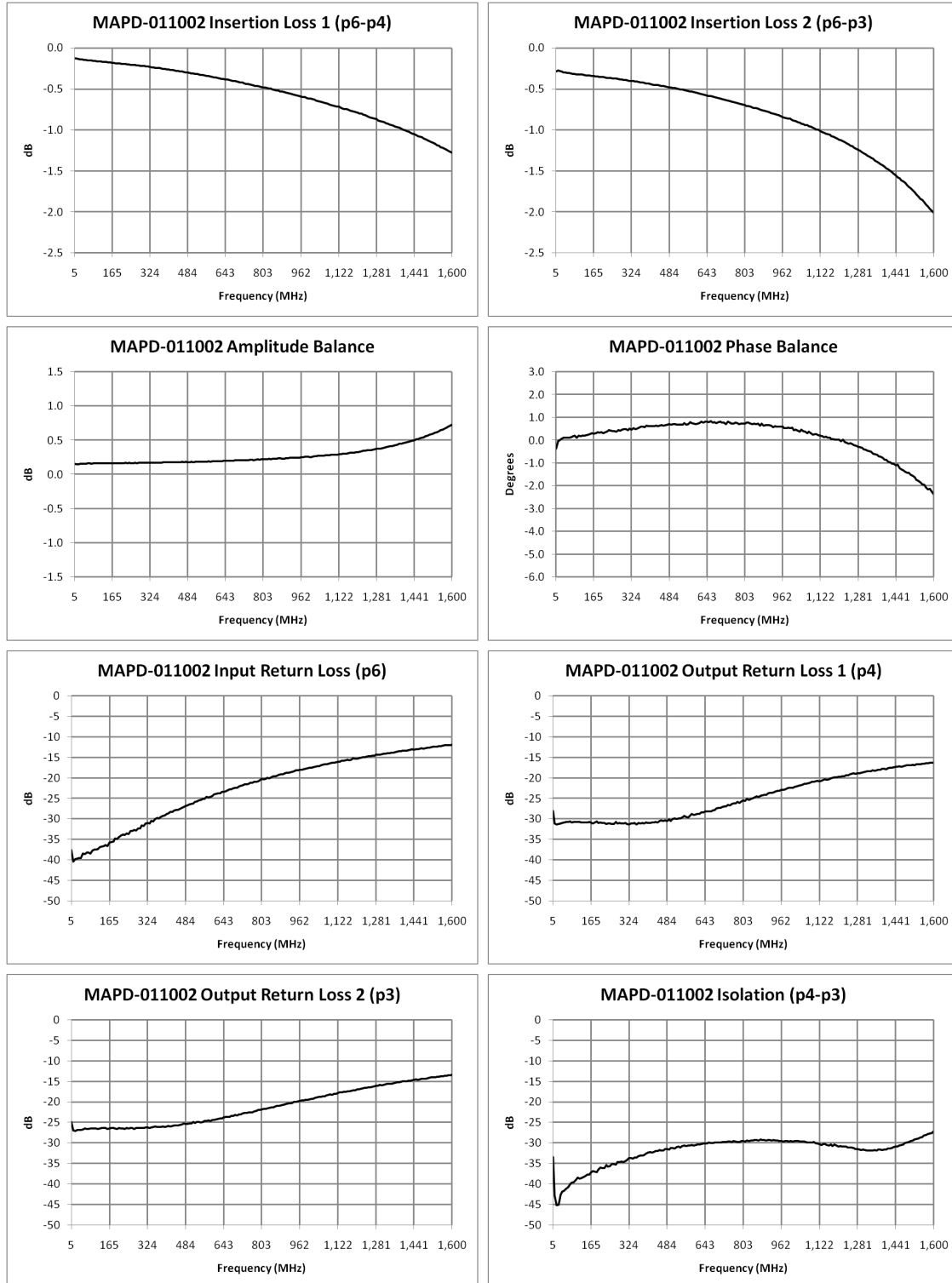
## Recommended Footprint



2 Way 0° Power Divider  
5 - 1600 MHz

Rev. V3

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



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