

Features

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

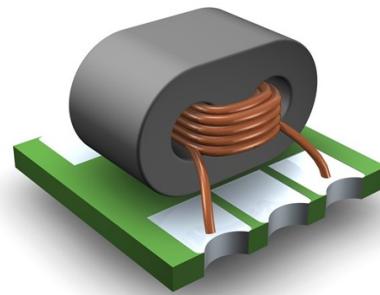
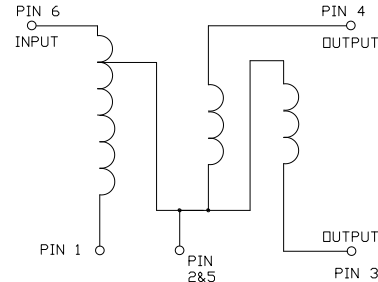
Ordering Information

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 Configuration³

	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	± 0.3
	500 - 1200 MHz	dB	-	0.3	± 0.6
	1200 - 1600 MHz	dB	-	0.7	± 1.3
Phase Balance	5 - 870 MHz	°	-	0.7	± 1.0
	870 - 1600 MHz	°	-	2.3	± 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

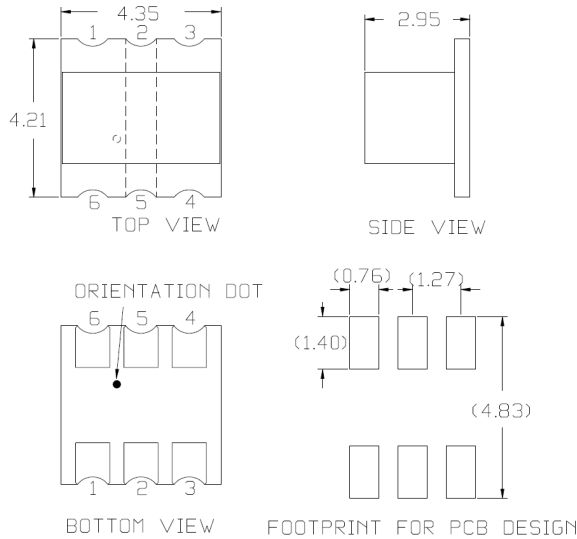
Handling Procedures

Please observe the following precautions to avoid damage:

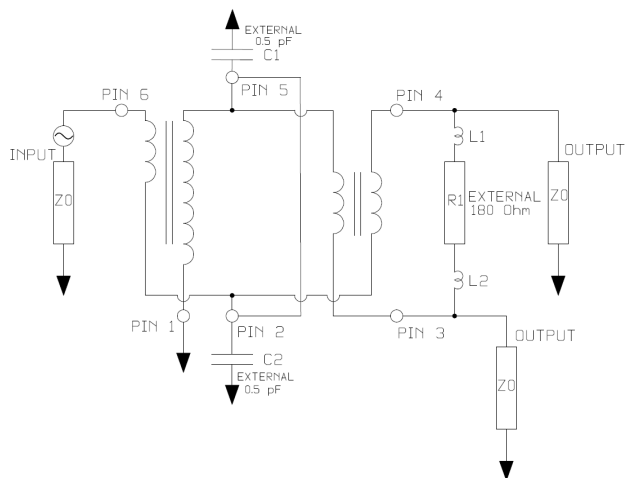
Static Sensitivity

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.

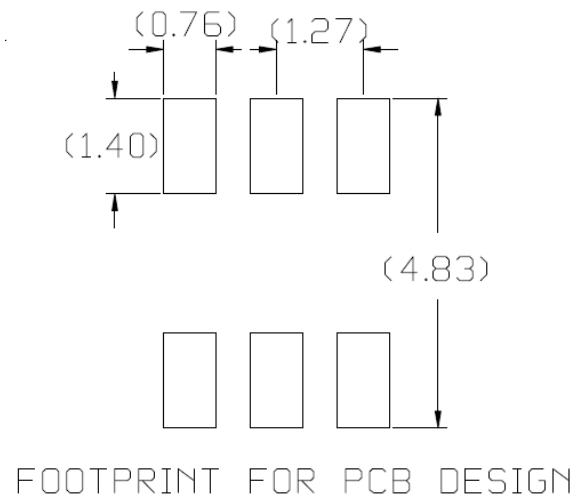
Outline Drawing



Application Circuit



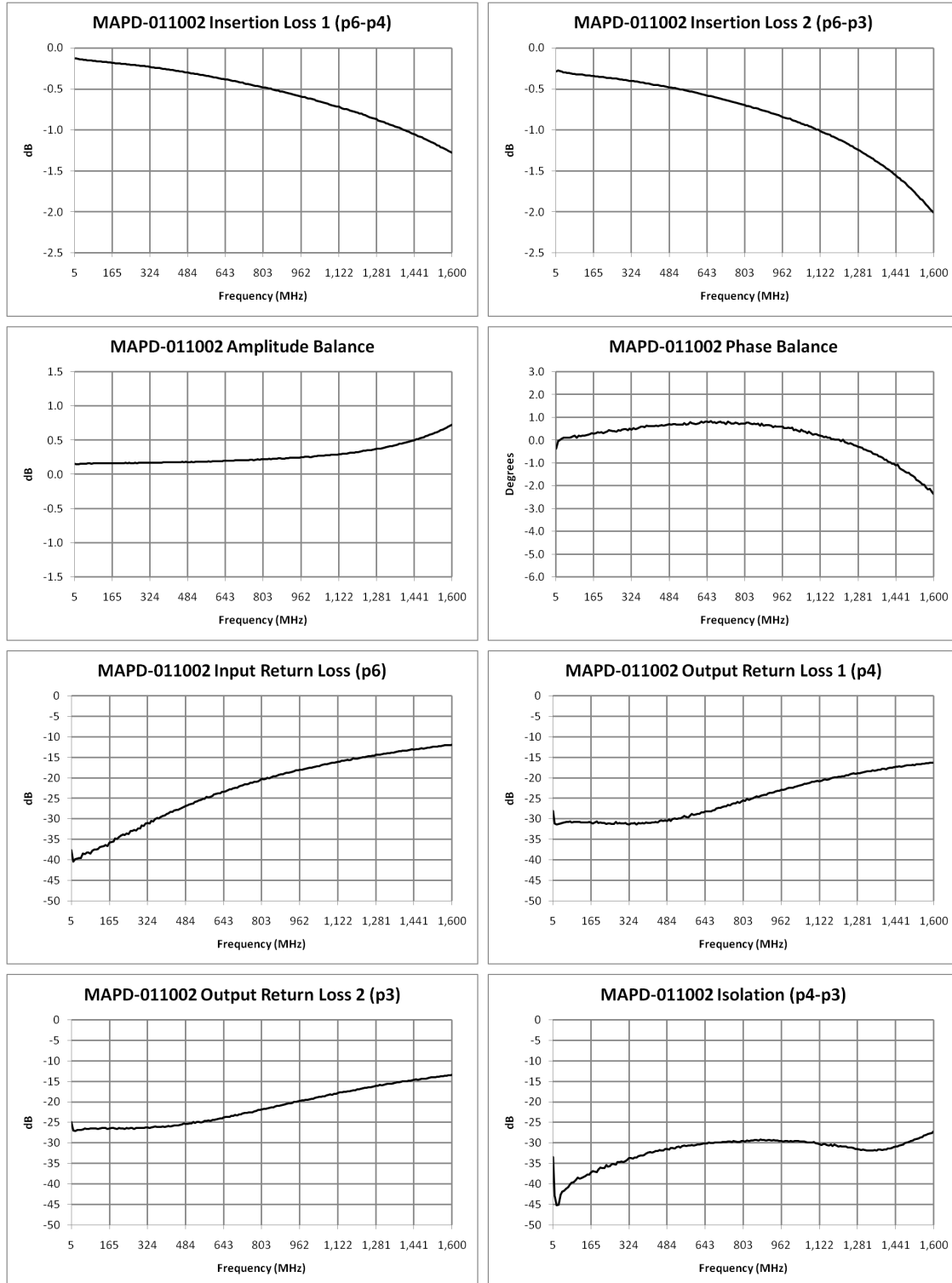
Recommended Footprint



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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