## 3-Way 0° Power Divider 5 - 300 MHz

#### Features

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

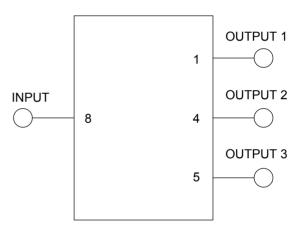
### Description

The MAPD-011026 is a 3 Way  $0^{\circ}$  power divider in a low cost, surface mount package.

Ideally suited for high volume CATV applications.



# **Functional Schematic**



## **Ordering Information**

Part Number	Description	
MAPD-011026	500 pc reel	
MAPD-011026-TB	Sample Test Board	

### **Pin Configuration**

Pin No.	Pin Name		
1	Output Port 1		
2,3,6,7	Ground		
4	Output Port 2		
5	Output Port 3		
8	Input		

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

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

Parameter	Frequency	Units	Min.	Тур.	Max.
Insertion Loss (Ref value: 4.77 dB)	5 - 204 MHz 204 - 300 MHz	dB	-	5.1 5.2	5.2 5.3
Isolation	5 - 200 MHz 200 - 300 MHz	dB	25 22	27 23	
Amplitude Balance	5 - 204 MHz 204 - 300 MHz	dB		0.04 0.10	0.1 0.2
Phase Balance	5 - 204 MHz 204 - 300 MHz	deg.	_	0.35 0.65	0.9 1.5
Input Return Loss	5 - 204 MHz 204 - 300 MHz	dB	31 26	34 30	_
Output Return Loss	5 - 204 MHz 204 - 300 MHz	dB	23 20	26 23	_

# Absolute Maximum Ratings<sup>4,5</sup>

Parameter	Absolute Maximum	
RF Input Power	0.5 W	
DC Current	500 mA	
Operating Temperature	-40°C to +85°C	

4. Exceeding any one or combination of these limits may cause permanent damage to this device.

- MACOM does not recommend sustained operation near these survivability limits.
- 6. Full temperature plots available on request.

### **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.

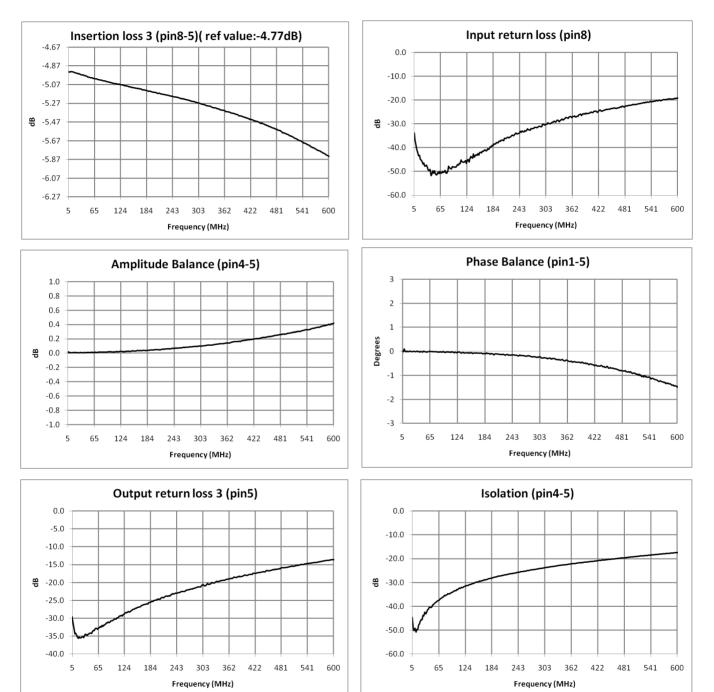
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## **Typical Performance Curves**

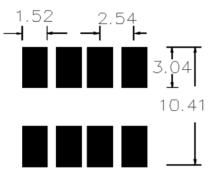


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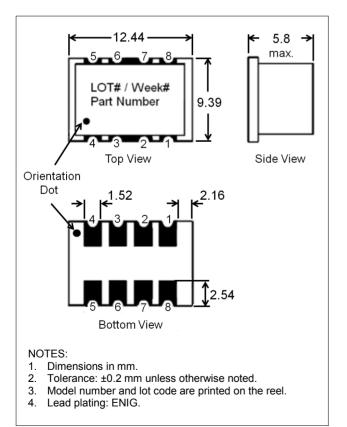
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# **Recommended PCB Layout**



## **Outline Drawing**



## **Tape & Reel Information**

ltem	Dimension	
Ao	10.26 mm +/-0.1 mm	
Во	13.46 mm +/-0.1 mm	
Ко	6.10 mm +/-0.1 mm	
W	24.00 mm +/-0.3 mm	
P1	16.00 mm +/-0.1 mm	
Orientation	F2	
Reference Application Note ANI-019 for orientation		

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