MoCA Band Pass Filter 1125 - 1550 MHz

Features

- 75 Ω
- Surface Mount Technology
- RoHS* Compliant

Description

The MAFL-010101-CB0AD0 is a surface mount band-pass filter unit designed for MoCA applications.

MA

MAFL-010101 DC-10/10

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

Parameter	Test Conditions Frequency (MHz)	Units	Min	Тур	Max
Insertion Loss	1125 - 1550	dB	1.7	_	2.0
Stop band Rejection	5 - 800 800 - 1002 2250 - 2400 2400 - 2600 2600 - 3000	dB	43 40 33 36 36	40 37 30 18 10	
Input Port Return Loss	1125 - 1200 1200 - 1550	dB	14 13	12 11	_

Ordering Information

Part Number	Package	
MAFL-010101-CB0AD0	500 piece reel	
MAFL-010101-CB0ATB	customer evaluation board	

Absolute Maximum Ratings^{1,2}

Parameter	Absolute Maximum	
RF Power	250 mW	
DC Current	30 mA	
Operating & Storage Temperature	-40°C to +85°C	

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

2. MACOM does not recommend sustained operation near these survivability limits.

1 * Restrictions on Hazardous Substances, compliant to current RoHS EU directive.

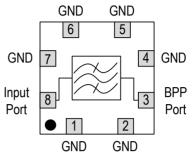
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Ground

3	Band-Pass Port	

1, 2, 4 - 7

Functional Schematic



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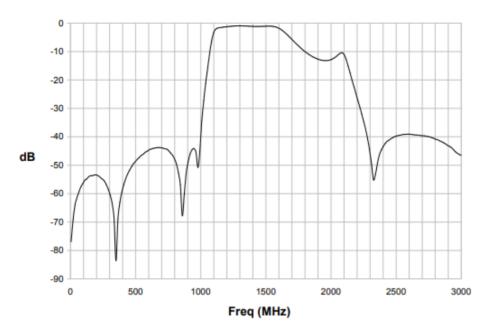
Function

Input Port

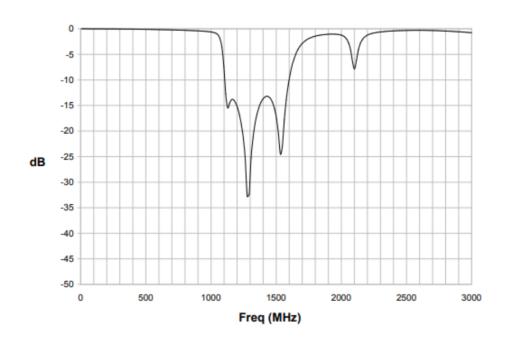
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Typical Performance Curves

Insertion Loss



Return Loss



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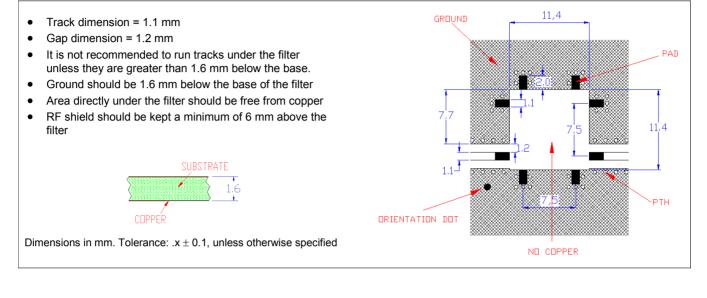
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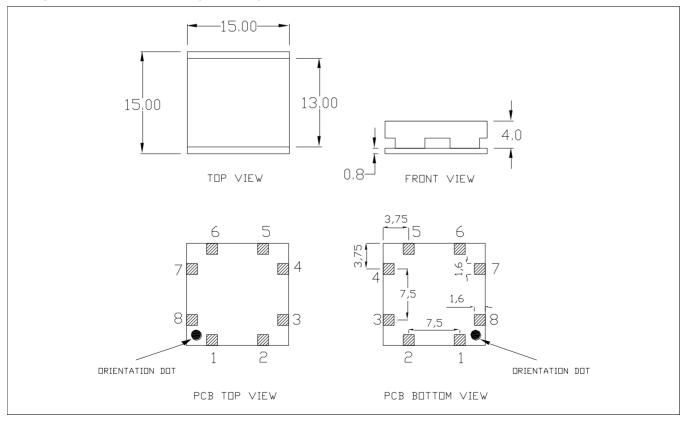
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Recommended PCB Configuration



Component Dimensions (SM-173)



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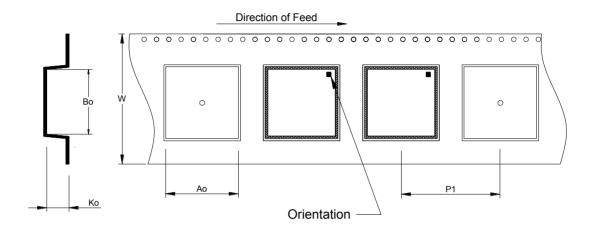
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Tape & Reel Information



Item	Dimension (mm)	
Ao	15.40 +/- 0.1	
Во	15.40 +/- 0.1	
Ko	5.40 +/- 0.1	
W	32.00 +/- 0.3	
P1	20.00 +/- 0.1	

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