

MoCA Band Pass Filter 1125 - 1550 MHz

Rev. V1

Features

- 75 Ohm
- SMT unit
- RoHS Compliant

Description

 M/A-COM Technology Solutions's MAFL-010101-CB0AD0 is a surface mount Band-Pass Filter unit designed for MoCA applications.

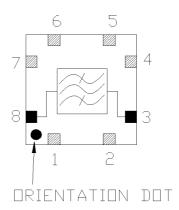
Product Image



Pin Configuration

Function	Pin Number
Input Port	8
Band-Pass Port	3
Ground	1, 2, 4 - 7
Not connected	-

Functional Schematic



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

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

Recommended Maximum

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

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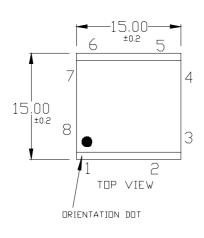
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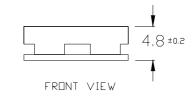


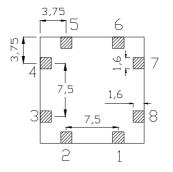
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Component Dimensions



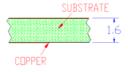


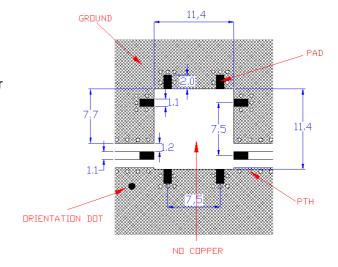


DEVICE BOTTOM VIEW

Recommended PCB Configuration

- Track dimension = 1.1mm
- Gap dimension = 1.2mm
- It is not recommended to run tracks under the filter unless they are greater than 1.6mm below the base.
- Ground should be 1.6mm below the base of the filter
- Area directly under the filter should be free from copper





* Dimensions are millimeters, tolerence ±0.1 unless otherwise specified.

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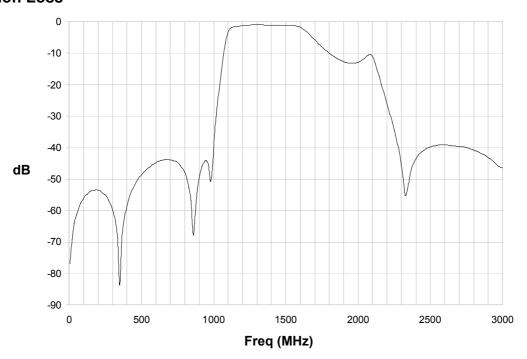


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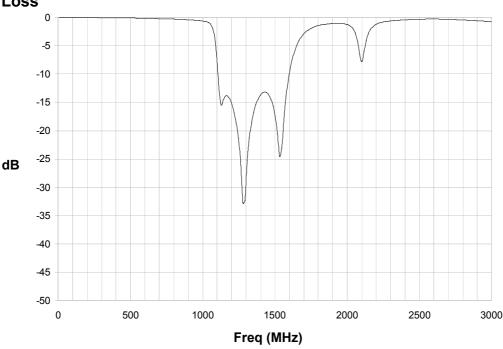
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Typical Performance Curves: $T_A = 25^{\circ}C$, $Z_0 = 75\Omega$, $P_{in} = 0$ dBm

Insertion Loss



Return Loss



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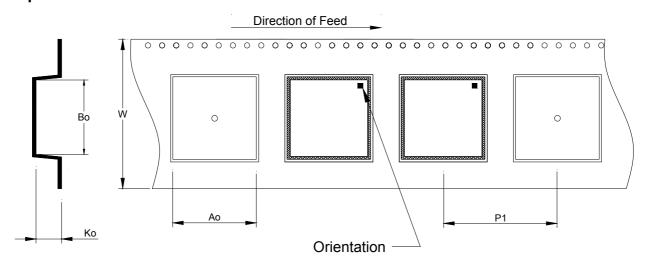
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Tape & Reel Information



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

Ordering Information

Part Number	Package
MAFL-010101-CB0AD0	500pcs Reel
MAFL-010101-CB0ATB	Customer Evaluation Board

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