CATV MoCA Low Pass Filter 50 - 870/ 975 - 1525 MHz



- 75 Ohm
- SMT unit
- RoHS* Compliant

Description

 M/A-COM Technology Solutions MAFL-008070-CL0AD0 is a surface mount Low-Pass Filter unit designed for MoCA applications.

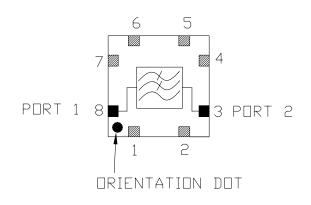
* 0C-5200

Pin Configuration

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

Functional Schematic



Recommended Maximum Ratings¹²

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

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

2. M/A-COM Technology Solutions does not recommend sustained operation near these survivability limits.

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

Parameter	Unit	Тур	Min	Мах
Insertion Loss 50-750MHz	dB	0.75	-	1
Insertion Loss 750-870MHz	dB	1.8	-	2
Stop band Rejection 975-1525MHz	dB	34	30	-
Stop band Rejection 1790-2100MHz	dB	30	25	-
Input Return Loss 50-870MHz	dB	13	12	-

* Restrictions on Hazardous Substances, European Union Directive 2002/95/EC.

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PRELIMINARY: Data Sheets contain information regarding a product M/A-COM Technology Solutions has under development. Performance is based on engineering tests. Specifications are typical. Mechanical outline has been fixed. Engineering samples and/or test data may be available. Commitment to produce in volume is not guaranteed.

North America Tel: 800.366.2266
Europe Tel: +353.21.244.6400
India Tel: +91.80.4155721
 China Tel: +86.21.2407.1588
Visit www.macomtech.com for additional data sheets and product information.

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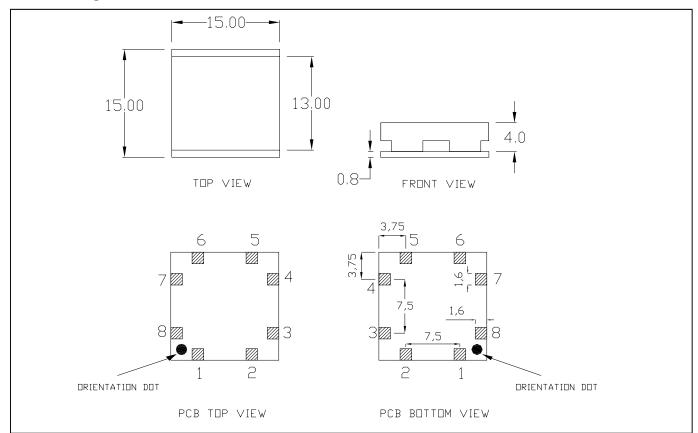
M/A-COM Products

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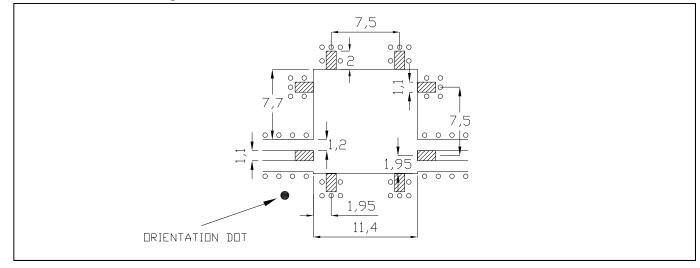
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Outline Drawing:



Recommended PCB Configuration



* Dimensions are millimeters ±0.1 unless otherwise specified.

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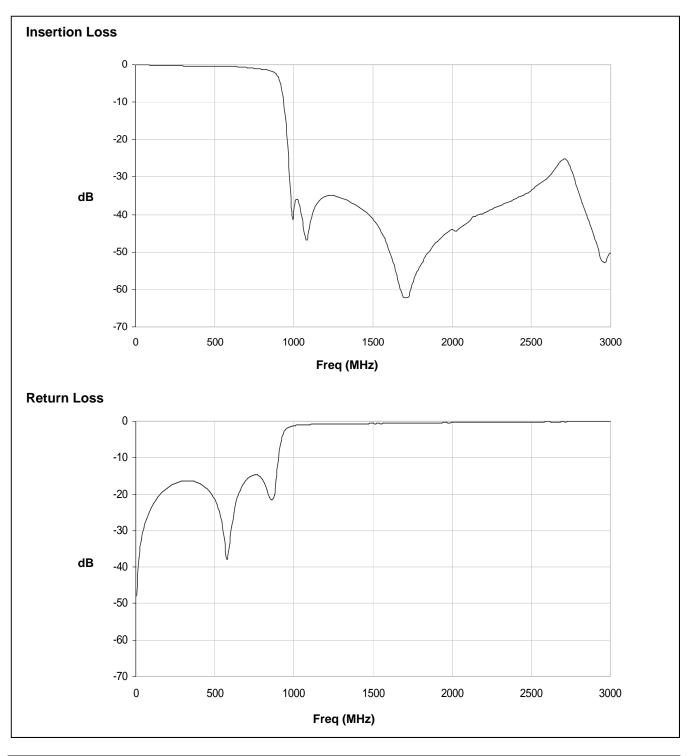




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Typical Performance Curves at +25°C



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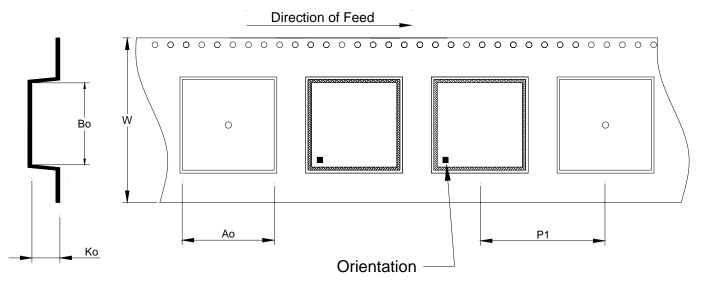
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Carrier Tape:



ltem	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	Quantity	
MAFL-008070-CL0AD0	500	
MAFL-008080-CL0ATB	Evaluation PCB	

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