

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

Rev. V5

Features

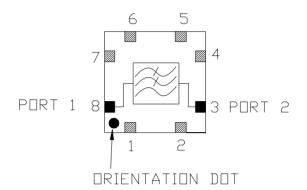
- 75 Ohm
- SMT unit
- · RoHS Compliant and lead free
- 260°C Reflow Compatible

Description

MAFL-008070-CL0AD0 is a surface mount low-pass filter unit designed for MoCA applications.



Functional Schematic



Pin Configuration

Pin Number	Function
1, 2, 4-7	Ground
3	Port 2
8	Port 1

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

Parameter	Test Conditions	Unit	Min.	Тур.	Max.
Insertion Loss	50 - 750 MHz 750 - 870 MHz dB —		_	0.75 1.80	1 2
Stop band Rejection	975 - 1525 MHz 1790 - 2100 MHz dB		30 25	34 30	_
Input Return Loss	50 - 870 MHz dB		12	13	_

Ordering Information

Part Number	Quantity
MAFL-008070-CL0AD0	500 pc. reel
MAFL-008080-CL0ATB	evaluation PCB

Recommended Maximum Ratings^{1,2}

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

- 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.

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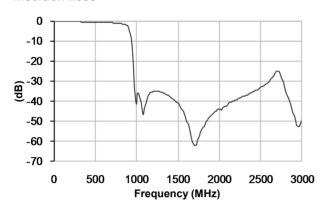


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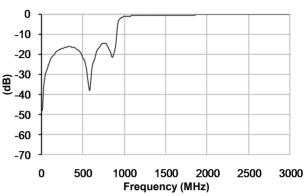
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Typical Performance Curves at +25°C

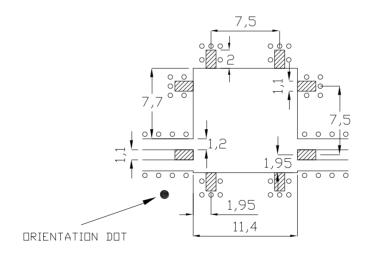
Insertion Loss



Return Loss



Recommended PCB Configuration



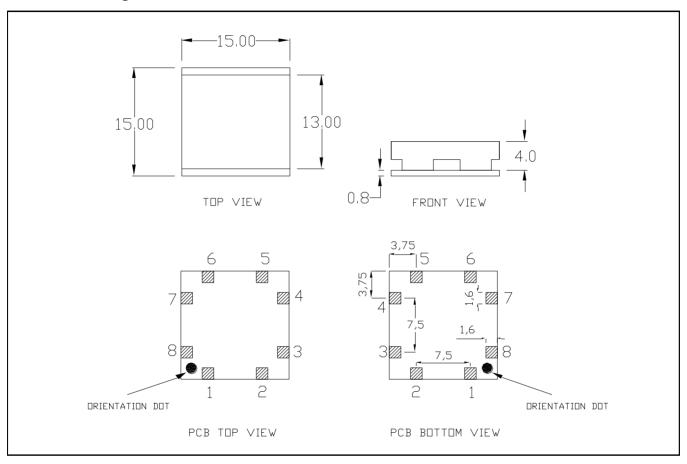
* Dimensions are millimeters ±0.1 unless otherwise specified.



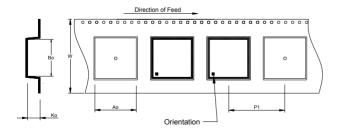
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Outline Drawing:



Carrier Tape:



Tape & Reel Information

Parameter	Units	Value		
Qty per reel	-	500		
Reel Size	mm	330.0		
Tape Width	mm	32.0		
Pitch	mm	20.0		
Orientation	-	F49		
Reference Application Note ANI-019 for orientation				



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