

MoCA Low Pass Filter 5 - 1550 MHz

Rev. V4

Features

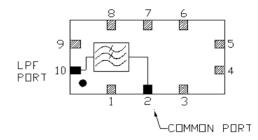
- 75 Ω
- · Surface Mount Package
- RoHS* Compliant & Lead Free
- MoCA Application

Description

The MAFL-009906-CL0AD0 is a surface mount low pass filter unit designed for MoCA applications.



Functional Schematic



Pin Configuration

Pin#	Function
1, 3 - 9	Ground
2	Common Port (Input)
10	Low Pass Port (Output)

Electrical Specifications: Freq. = 5 - 1550 MHz, Z_0 = 75 Ω , T_A = 25°C

Parameter	Freq. Test Conditions (MHz)	Units	Min.	Тур.	Max.
Insertion Loss (Common to Low)	5 - 42 MHz 42 - 860 MHz 860 -1002 MHz	dB	_	0.05 0.6 1.5	0.15 0.8 1.7
Rejection (Common to Low)	1130 - 1550 MHz	dB	30	32	_
Return Loss (Common Port)	5 - 600 MHz 600 - 950 MHz 950 - 1002 MHz	dB	13 11 12	15 13 14	_
Voltage Transient (Common Port)	5 - 1550	V	_	_	200

Ordering Information

Parameter	Package
MAFL-009906-CL0AD0	500 piece reel

Absolute Maximum Ratings^{1,2}

Parameter	Absolute Maximum
RF Power	250 mW
DC Current	30 mA
Transient Voltage	200 V
Operating & Storage Temperature	-40°C to +85°C

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

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^{*} Restrictions on Hazardous Substances, compliant to current RoHS EU directive.

MACOM does not recommend sustained operation near these survivability limits.

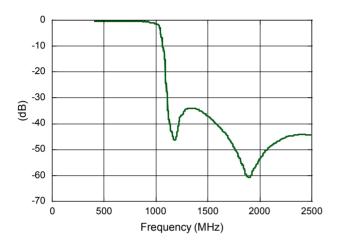


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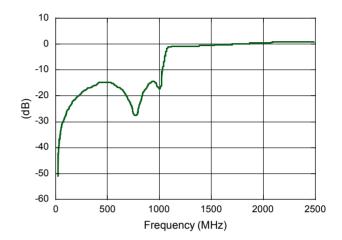
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Typical Performance Curves

Low Pass Insertion Loss



Common Port Return Loss

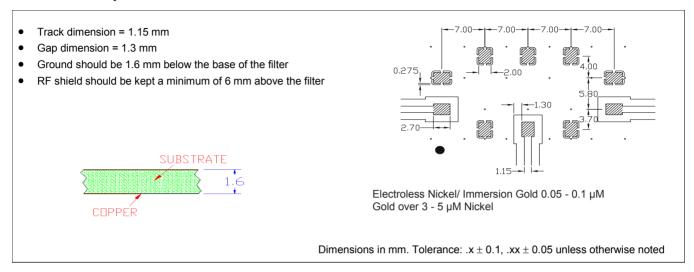




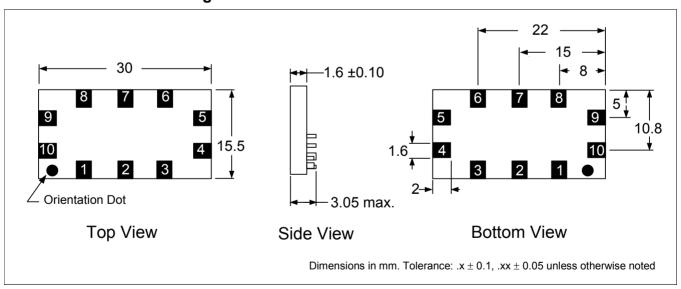
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PCB Finish Specification



Recommended PCB Configuration

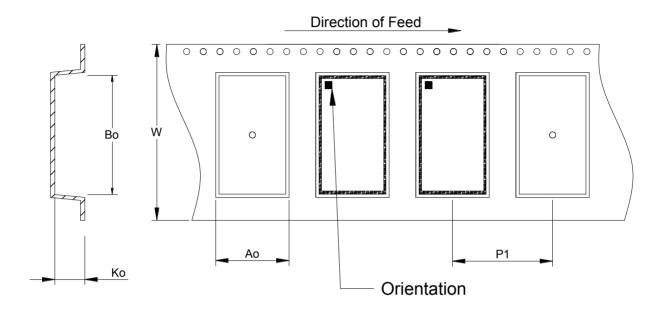




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Packaging



Dimensions

Item	Dimension	
Ao	15.80 mm +/- 0.1 mm	
Во	30.30 mm +/- 0.1 mm	
Ko	3.40 mm +/- 0.1 mm	
W	44.00 mm +/- 0.3 mm	
P1	24.00 mm +/- 0.1 mm	



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