CATV MoCA Low Pass Filter 5 - 1550 MHz

Features

- Surface Mount
- 75 Ohm
- RoHS* Compliant
- Pb Free
- MoCA Application

Description

M/A-COM Technology Solutions' MAFL-010412-CL0AD0 is a surface mount Low Pass Filter unit designed for MoCA applications.

Functional Schematic

Product Image



6

7 🕅

Electrical Specifications: Z0 = 75Ω, TA = 25°C

Parameter	Units	Min	Тур	Мах
Common to Low				
Insertion Loss				
5 - 42 MHz	dB	-	0.05	0.15
42 - 860 MHz	dB	-	0.5	0.8
860 -1002 MHz	dB	-	1.5	1.7
Rejection	-		_	
1130 - 1550 MHz	dB	35	37	-
Common Port Return Loss 5 - 600 MHz 600 - 950 MHz 950 - 1002 MHz	dB dB dB	13 11 12	16 14 14	
Common port voltage transient	V	-	-	200

Recommended Maximum Ratings

Parameter	Value		
Storage Temperature	-40C to +85°C		
Operating Temperature	-40C to +85°C		
DC Current	30mA		
RF Power	+23.9dBm(250mW)		
Transient Voltage	200V		

Pin Configuration

Function	Pin Number		
Common Port (Input)	8		
Low Pass Port (Output)	3		
Ground	1 - 2, 4 - 7		
Not connected	-		

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

• Full temperature plots are available on request.

1

M/A-COM Technology Solutions Inc. (MACOM) and its affiliates reserve the right to make changes to the product(s) or information contained herein without notice. Visit <u>www.macom.com</u> for additional data sheets and product information.

MACOM

CTIC000

5

4

Rev. V5



Outline Drawing: SM-173



Recommended PCB Configuration



* Dimensions are millimeters ±0.1 unless otherwise specified.

2

ΜΛΟΜ

Rev. V5

M/A-COM Technology Solutions Inc. (MACOM) and its affiliates reserve the right to make changes to the product(s) or information contained herein without notice. Visit www.macom.com for additional data sheets and product information.



CATV MoCA Low Pass Filter 5 - 1550 MHz

Typical Performance Curves at +25°C

Return Loss



Frequency (MHz)

Insertion Loss



3

M/A-COM Technology Solutions Inc. (MACOM) and its affiliates reserve the right to make changes to the product(s) or information contained herein without notice. Visit <u>www.macom.com</u> for additional data sheets and product information.

Rev. V5



Rev. V5

CATV MoCA Low Pass Filter 5 - 1550 MHz

Parameter	Units	Value		
Qty per reel	-	500		
Reel Size	mm	330		
Tape Width	mm	32.00		
Pitch	mm	20.00		
Ao	mm	15.30		
Во	mm	15.30		
Ко	mm	3.70		
Orientation	-	F20		
Reference Application Note ANI-019 for orientation				

Part Number	Description
MAFL -010412-CL0AD0	Tape & Reel

Parameter	Units	Min	Мах
Input Power	mW		250
DC Current	mA		200
Operating Temperature Range	°C	-40	+85
Storage Temperature Range	°C	-55	+125

M/A-COM Technology Solutions Inc. (MACOM) and its affiliates reserve the right to make changes to the product(s) or information contained herein without notice. Visit <u>www.macom.com</u> for additional data sheets and product information.

4