

MoCA Band Pass Filter 1125 - 1550 MHz

Rev. V3

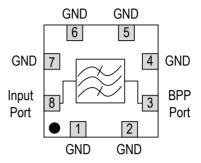
Features

- 75 Ω
- Surface Mount Technology
- RoHS* Compliant & Lead-Free

Description

The MAFL-010256-CB0AD0 is a surface mount band-pass filter unit designed for MoCA applications.

Functional Schematic



Pin Configuration

Pin#	Function	Pin#	Function
1, 2, 4 - 7	Ground	8	Input Port
3	Band-Pass Port		

Electrical Specifications: $T_A = 25$ °C, $P_{IN} = 0$ dBm, $Z_0 = 75$ Ω

Parameter	Test Conditions Frequency (MHz)	Units	Min	Тур	Max
Insertion Loss	1125 - 1550	dB	1.7	_	2.0
Stop band Rejection	5 - 300 300 - 800 800 - 1002 2250 - 3000	dB	53 44 40 35	50 40 38 33	_
Input Port Return Loss	1125 - 1200 1200 - 1550	dB	12.5 11.0	11.0 10.0	_

Ordering Information

Part Number	Package	
MAFL-010256-CB0AD0	500 piece reel	
MAFL-010256-CB0ATB	customer evaluation board	

Absolute Maximum Ratings^{1,2}

Parameter	Absolute Maximum	
RF Power	250 mW	
DC Current	30 mA	
Operating & 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.

MACOM 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.

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

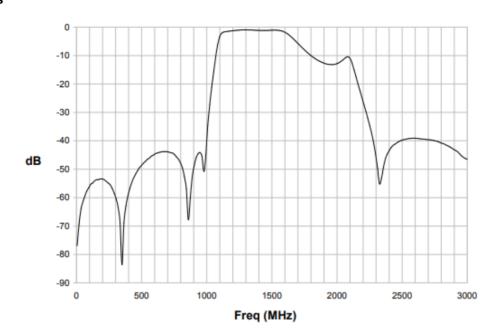


MoCA Band Pass Filter 1125 - 1550 MHz

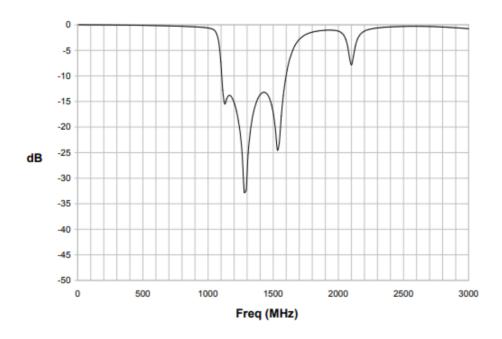
Rev. V3

Typical Performance Curves

Insertion Loss



Return Loss

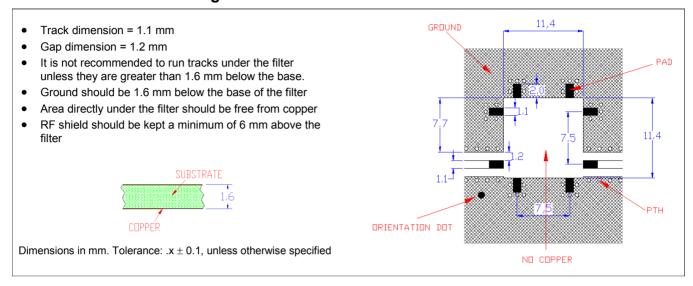




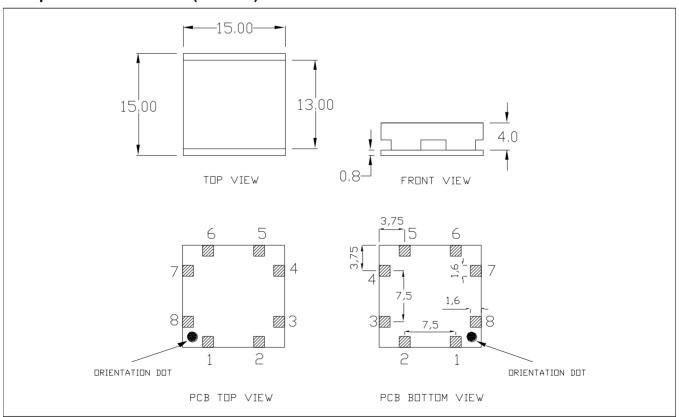
MoCA Band Pass Filter 1125 - 1550 MHz

Rev. V3

Recommended PCB Configuration



Component Dimensions (SM-173)

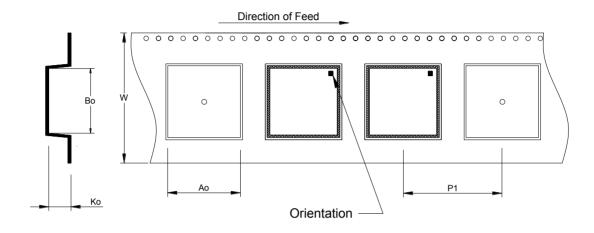




MoCA Band Pass Filter 1125 - 1550 MHz

Rev. V3

Tape & Reel Information



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



MoCA Band Pass Filter 1125 - 1550 MHz

Rev. V3

MACOM Technology Solutions Inc. All rights reserved.

Information in this document is provided in connection with MACOM Technology Solutions Inc ("MACOM") products. These materials are provided by MACOM as a service to its customers and may be used for informational purposes only. Except as provided in MACOM's Terms and Conditions of Sale for such products or in any separate agreement related to this document, MACOM assumes no liability whatsoever. MACOM assumes no responsibility for errors or omissions in these materials. MACOM may make changes to specifications and product descriptions at any time, without notice. MACOM makes no commitment to update the information and shall have no responsibility whatsoever for conflicts or incompatibilities arising from future changes to its specifications and product descriptions. No license, express or implied, by estoppels or otherwise, to any intellectual property rights is granted by this document.

THESE MATERIALS ARE PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, RELATING TO SALE AND/OR USE OF MACOM PRODUCTS INCLUDING LIABILITY OR WARRANTIES RELATING TO FITNESS FOR A PARTICULAR PURPOSE, CONSEQUENTIAL OR INCIDENTAL DAMAGES, MERCHANTABILITY, OR INFRINGEMENT OF ANY PATENT, COPYRIGHT OR OTHER INTELLECTUAL PROPERTY RIGHT. MACOM FURTHER DOES NOT WARRANT THE ACCURACY OR COMPLETENESS OF THE INFORMATION, TEXT, GRAPHICS OR OTHER ITEMS CONTAINED WITHIN THESE MATERIALS. MACOM SHALL NOT BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, INCLUDING WITHOUT LIMITATION, LOST REVENUES OR LOST PROFITS, WHICH MAY RESULT FROM THE USE OF THESE MATERIALS.

MACOM products are not intended for use in medical, lifesaving or life sustaining applications. MACOM customers using or selling MACOM products for use in such applications do so at their own risk and agree to fully indemnify MACOM for any damages resulting from such improper use or sale.