

MoCA Band Pass Filter 1125 - 1550 MHz

Rev. V2

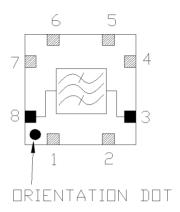
Features

- 75 Ohm
- SMT unit
- RoHS* Compliant
- Pb Free

Description

 MAFL-010256-CB0AD0 is a surface mount Band-Pass Filter unit designed for MoCA applications.

Functional Schematic



Pin Configuration

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

Ordering Information

Part Number	Package
MAFL-010256- CB0AD0	500pcs Reel
MAFL-010256- CB0ATB	Customer Evaluation Board



MoCA Band Pass Filter 1125 - 1550 MHz

Rev. V2

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

Parameter	Unit	Тур	Min	Max
Insertion Loss 1125 - 1550 MHz	dB	1.7	-	2.0
Stopband Rejection 5 - 300 MHz 300 - 800 MHz 800 - 1002 MHz 2250 - 3000 MHz	dB dB dB dB	53 44 40 35	50 40 38 33	- - - - -
Input Port Return Loss 1125 - 1200 MHz 1200 - 1550 MHz	dB dB	12.5 11	11 10	-

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

Recommended Maximum Ratings^{1 2}

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

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

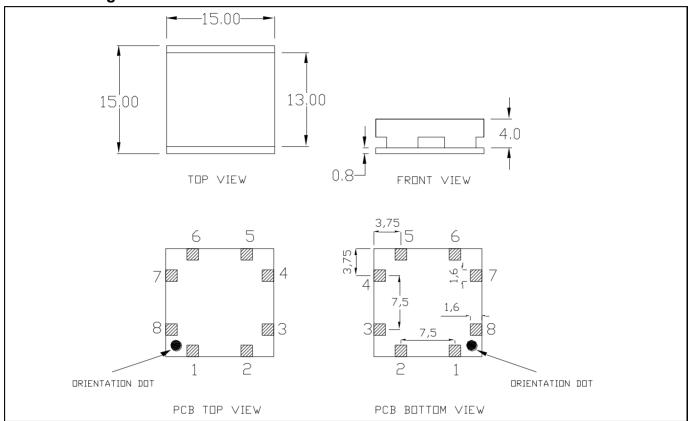
M/A-COM Technology Solutions does not recommend sustained operation near these survivability limits.



MoCA Band Pass Filter 1125 - 1550 MHz

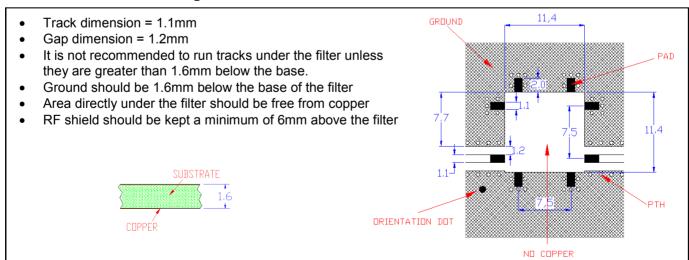
Rev. V2

Outline Drawing: SM-173



^{*} Dimensions are millimeters ±0.2 unless otherwise specified., Drawing not to scale.

Recommended PCB Configuration



^{3 *} Dimensions are millimeters ±0.1 unless otherwise specified.

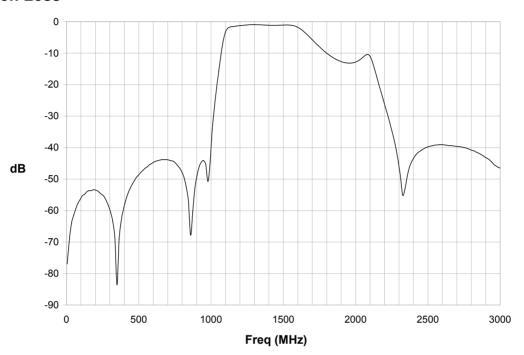


MoCA Band Pass Filter 1125 - 1550 MHz

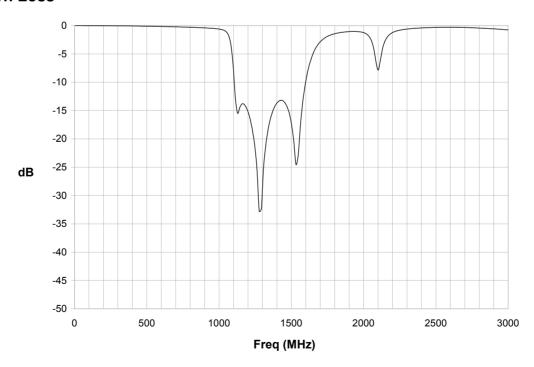
Rev. V2

Typical Performance Curves at +25°C

Insertion Loss



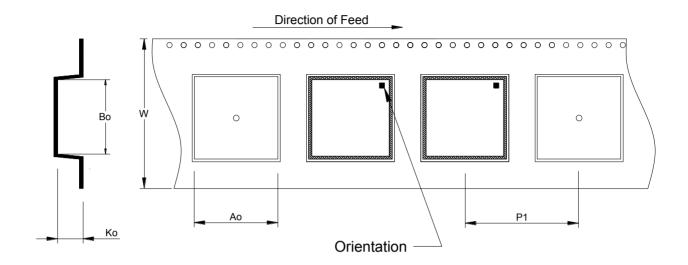
Return Loss





MoCA Band Pass Filter 1125 - 1550 MHz

Rev. V2



Item	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