

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

Rev. V4

### Features

- 75 Ohm
- SMT unit
- RoHS\* Compliant

### Description

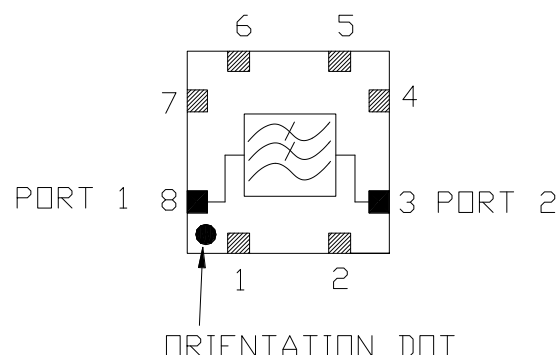
- M/A-COM Technology Solutions MAFL-008070-CL0AD0 is a surface mount Low-Pass Filter unit designed for MoCA applications.



### Pin Configuration

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

### Functional Schematic



### Recommended Maximum Ratings<sup>1 2</sup>

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

1. Exceeding any one or combination of these limits may cause permanent damage to this device.
2. M/A-COM Technology Solutions does not recommend sustained operation near these survivability limits.

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

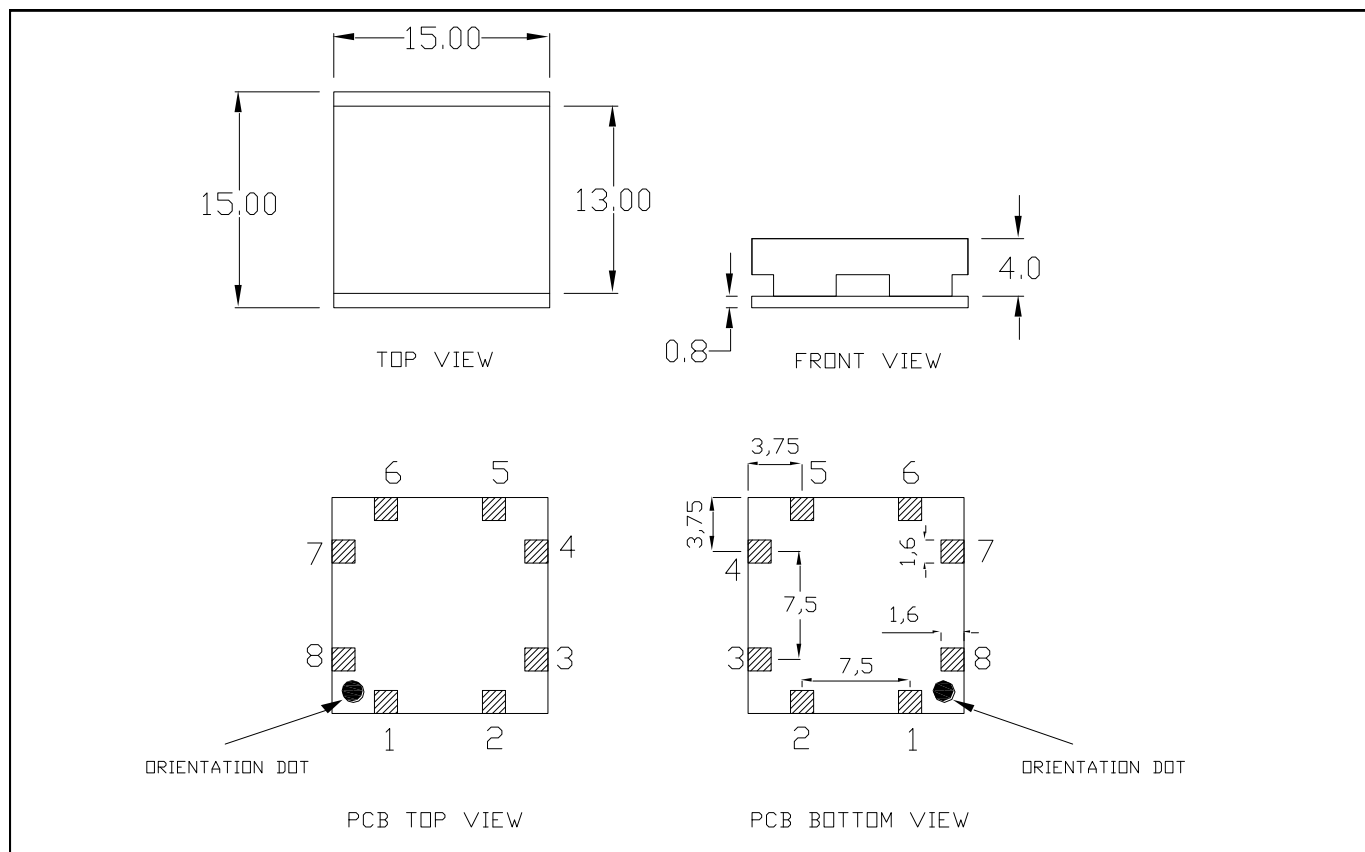
Parameter	Unit	Typ	Min	Max
Insertion Loss 50-750MHz	dB	0.75	-	1
Insertion Loss 750-870MHz	dB	1.8	-	2
Stop band Rejection 975-1525MHz	dB	34	30	-
Stop band Rejection 1790-2100MHz	dB	30	25	-
Input Return Loss 50-870MHz	dB	13	12	-

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

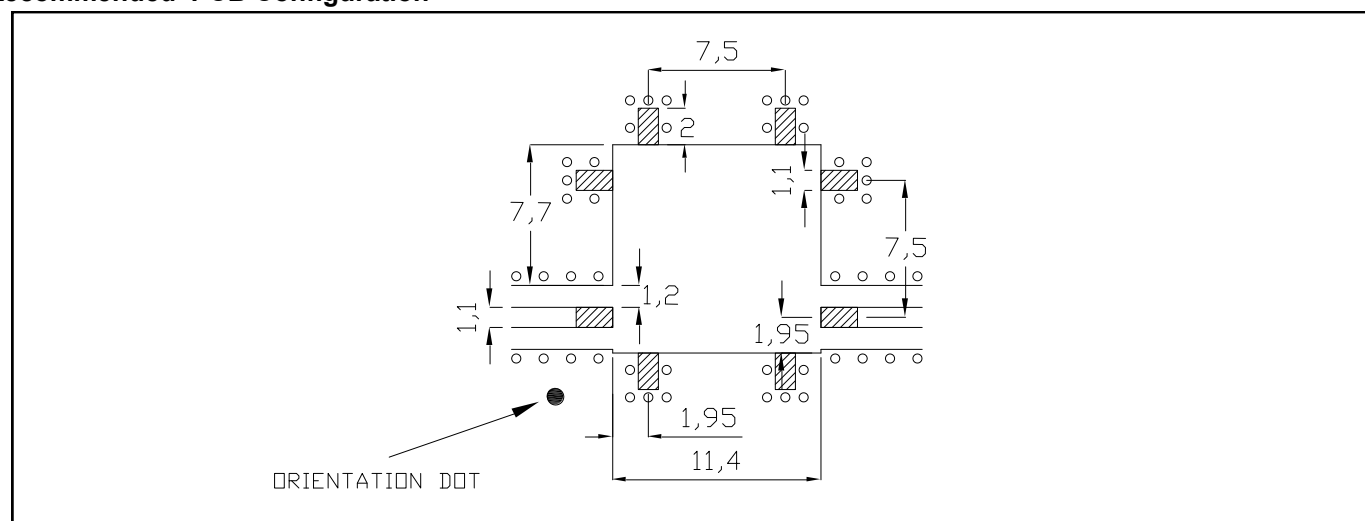
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### Outline Drawing:



### Recommended PCB Configuration



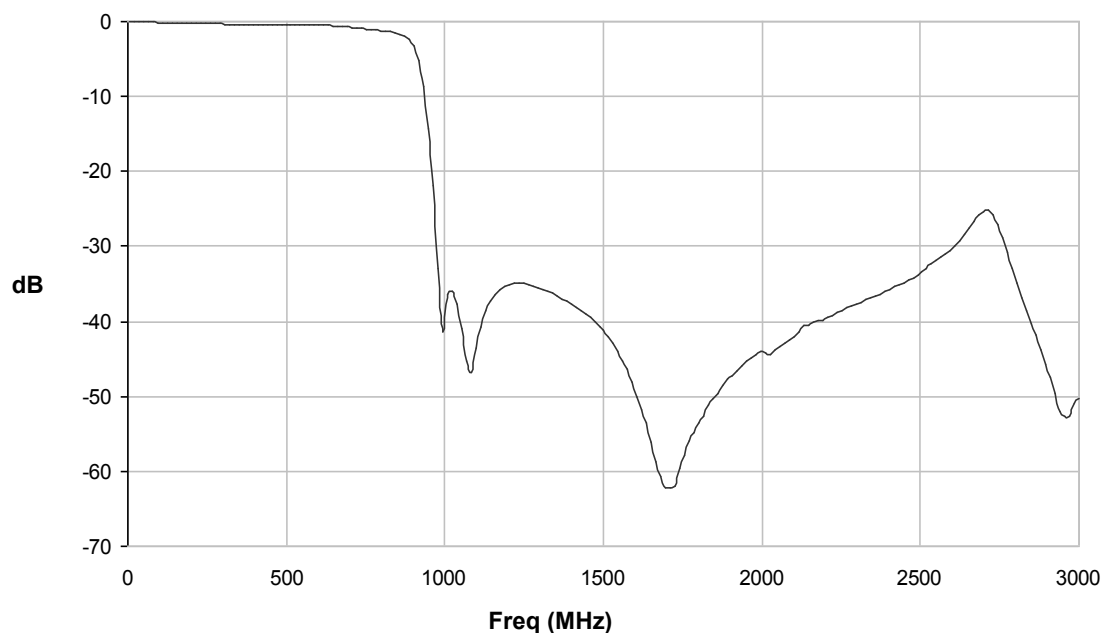
\* Dimensions are millimeters  $\pm 0.1$  unless otherwise specified.

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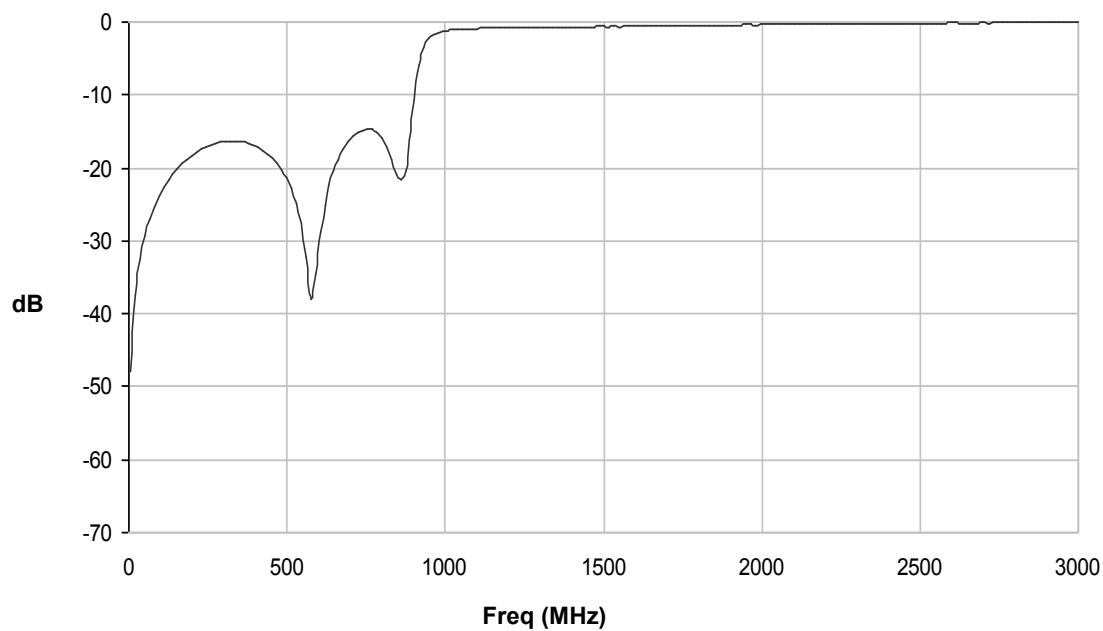
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Typical Performance Curves at +25°C

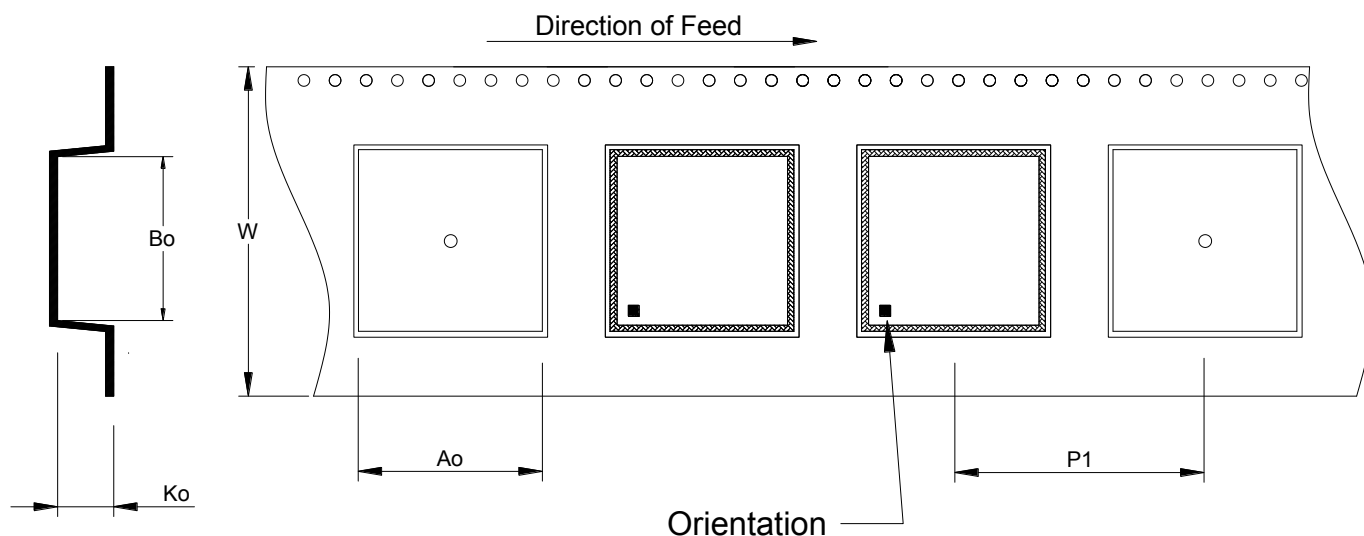
Insertion Loss



Return Loss



## Carrier Tape:



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

## Ordering Information

Part Number	Quantity
MAFL-008070-CL0AD0	500
MAFL-008080-CL0ATB	Evaluation PCB

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