

## Features

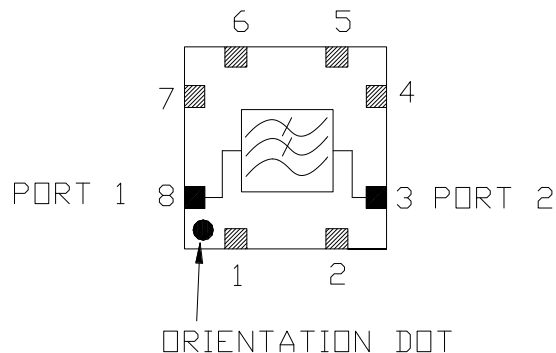
- 75 Ohm
- SMT unit
- RoHS Compliant and lead free
- 260°C Reflow Compatible

## Description

MAFL-008070-CLOAD0 is a surface mount low-pass filter unit designed for MoCA applications.



## Functional Schematic



## Pin Configuration

Pin Number	Function
1, 2, 4-7	Ground
3	Port 2
8	Port 1

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

Parameter	Test Conditions	Unit	Min.	Typ.	Max.
Insertion Loss	50 - 750 MHz	dB	—	0.75	1
	750 - 870 MHz			1.80	2
Stop band Rejection	975 - 1525 MHz	dB	30	34	—
	1790 - 2100 MHz		25	30	—
Input Return Loss	50 - 870 MHz	dB	12	13	—

## Ordering Information

Part Number	Quantity
MAFL-008070-CLOAD0	500 pc. reel
MAFL-008080-CLOADB	evaluation PCB

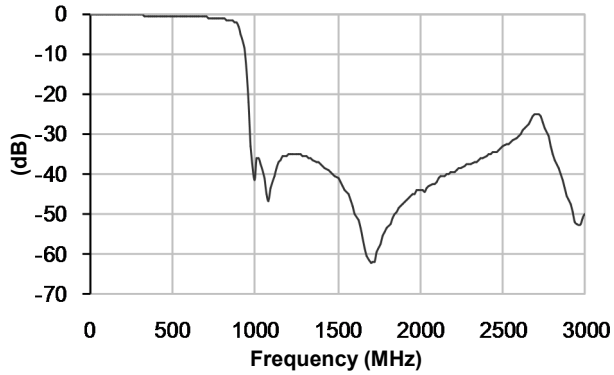
## Recommended Maximum Ratings<sup>1,2</sup>

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

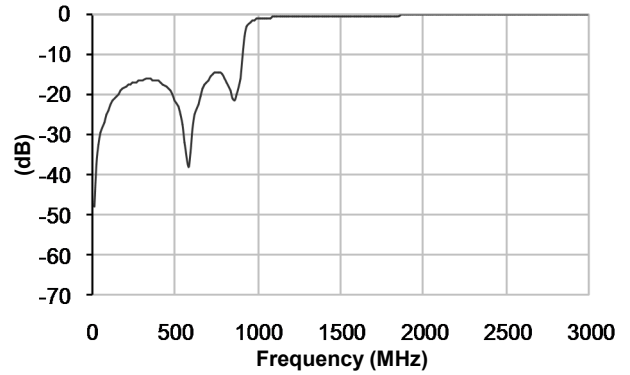
1. Exceeding any one or combination of these limits may cause permanent damage to this device.
2. MACOM does not recommend sustained operation near these survivability limits.

## Typical Performance Curves at +25°C

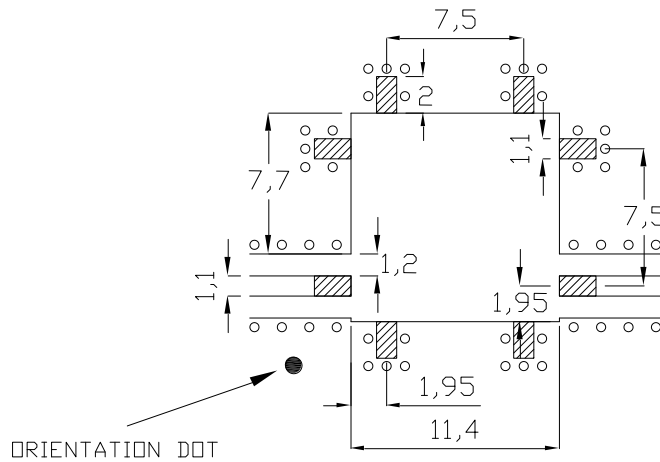
*Insertion Loss*



*Return Loss*

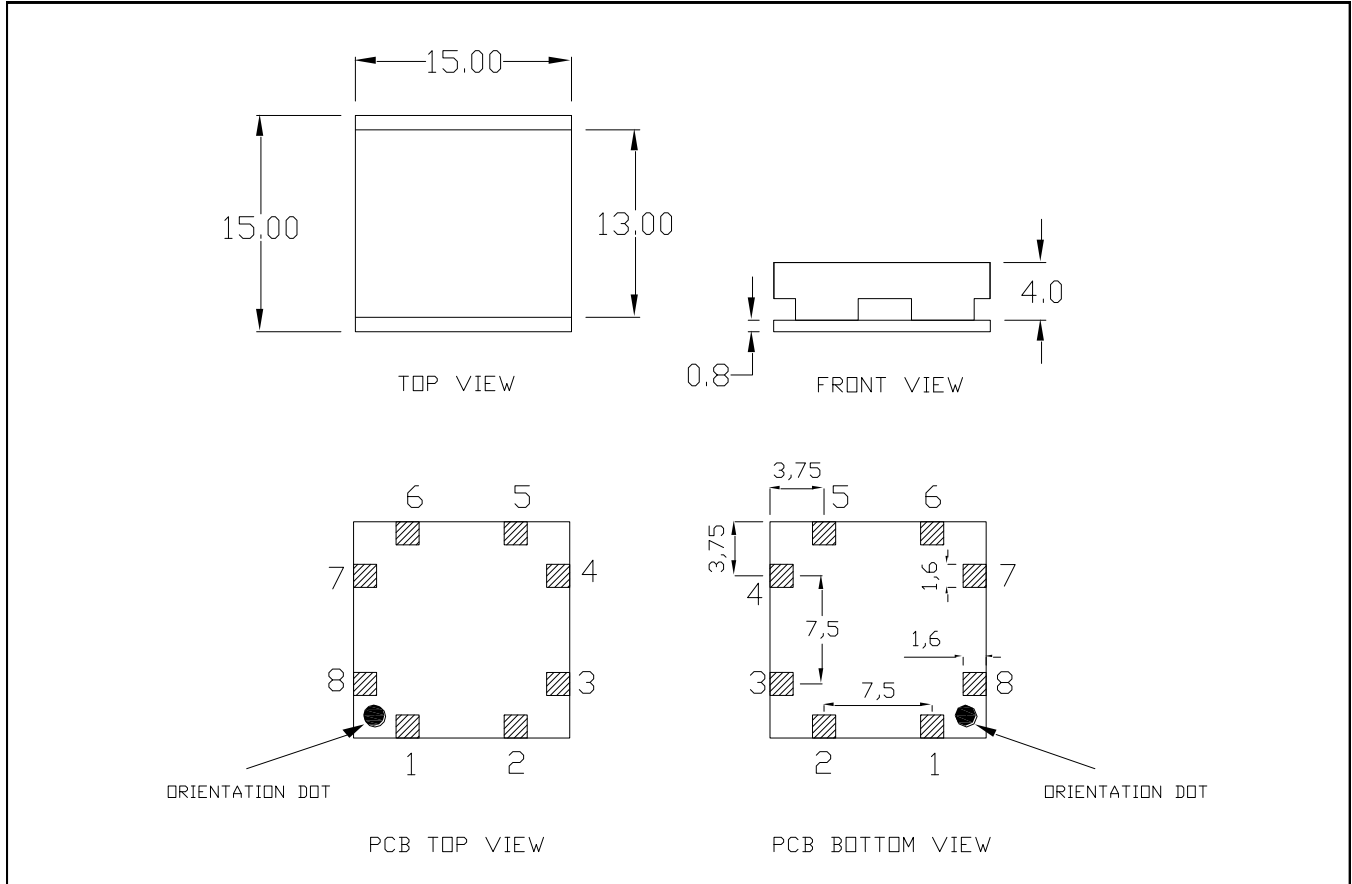


## Recommended PCB Configuration

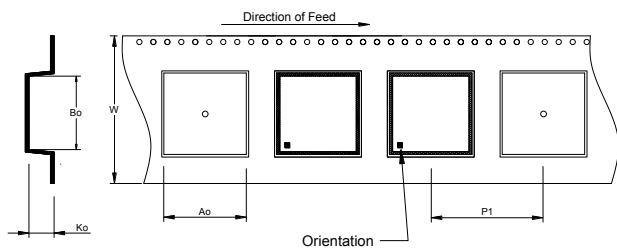


\* Dimensions are millimeters  $\pm 0.1$  unless otherwise specified.

## Outline Drawing:



## Carrier Tape:



## Tape & Reel Information

Parameter	Units	Value
Qty per reel	-	500
Reel Size	mm	330.0
Tape Width	mm	32.0
Pitch	mm	20.0
Orientation	-	F49
Reference Application Note ANI-019 for orientation		

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