

Electronics

## CATV Bandpass Filter 50 - 870 / 975 - 1025 / 1125 - 1425MHz

#### Features

- 50 Ohm
- SMT unit
- RoHS\* Compliant

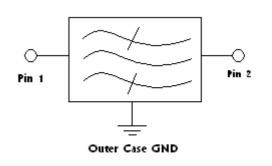
## Description

M/A-COM's MAFLCT0081 is a surface mount Bandpass filter unit designed for MoCA applications.

## **Functional Schematic**

**RoHS** 

Compliant





## **Pin Configuration**

Function	Pin Number		
Input Port	1		
Output Port	2		

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

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

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

1

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

M/A-COM Inc. and its affiliates reserve the right to make changes to the product(s) or information contained herein without notice. M/A-COM makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does M/A-COM assume any liability whatsoever arising out of the use or application of any product(s) or information.

- North America Tel: 800.366.2266 / Fax: 978.366.2266
- Europe Tel: 44.1908.574.200 / Fax: 44.1908.574.300
- Asia/Pacific Tel: 81.44.844.8296 / Fax: 81.44.844.8298

Visit www.macom.com for additional data sheets and product information.



**MAFLCT0081** 

V1P



Electronics

# RoHS Compliant

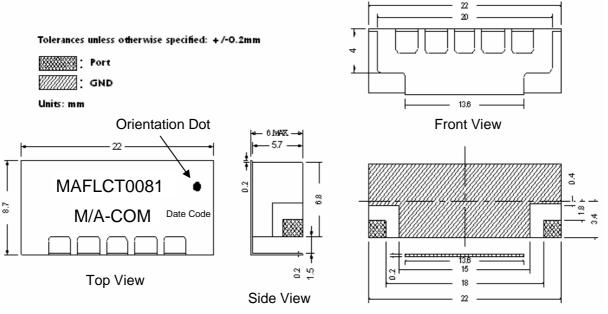


**MAFLCT0081** 

V1P

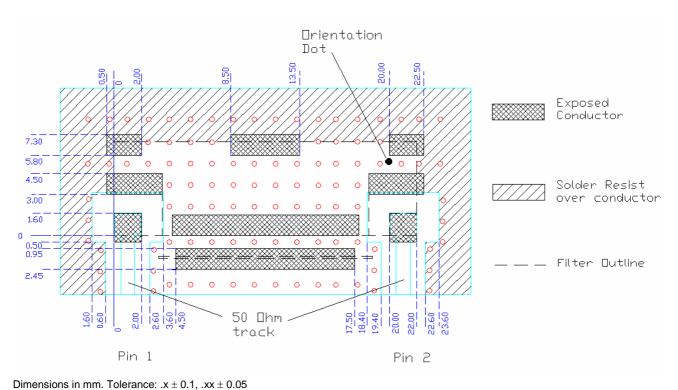
# CATV Bandpass Filter 50 - 870 / 975 - 1025 / 1125 - 1425MHz

## SM-171 Case Style



#### Footprint View from Top

## **Recommended PCB Configuration**



<sup>2</sup> 

M/A-COM Inc. and its affiliates reserve the right to make changes to the product(s) or information contained herein without notice. M/A-COM makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does M/A-COM assume any liability whatsoever arising out of the use or application of any product(s) or information.

• North America Tel: 800.366.2266 / Fax: 978.366.2266

• Europe Tel: 44.1908.574.200 / Fax: 44.1908.574.300

• Asia/Pacific Tel: 81.44.844.8296 / Fax: 81.44.844.8298

Visit www.macom.com for additional data sheets and product information.

tyco

Electronics

# RoHS Compliant

MAFLCT0081 V1P

МАССИ

## CATV Bandpass Filter 50 - 870 / 975 - 1025 / 1125 - 1425MHz

Electrical Specifications:  $T_A = 25^{\circ}C$ ,  $Z_0 = 50\Omega$ 

Parameter	Test Conditions	Units	Min	Тур	Max
Frequency Range	50-870 / 975 - 1025 / 1125-1425MHz				
Insertion Loss	975 - 1025MHz	dB		-1.1	-1.2
Stopband Rejection	50 - 870MHz	dB	-45	-65	
Stopband Rejection	1125 - 1425MHz	dB	-45	-56	
Input Return Loss	975 - 1025MHz	dB	-16	-18	

3

M/A-COM Inc. and its affiliates reserve the right to make changes to the product(s) or information contained herein without notice. M/A-COM makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does M/A-COM assume any liability whatsoever arising out of the use or application of any product(s) or information.

- North America Tel: 800.366.2266 / Fax: 978.366.2266
- Europe Tel: 44.1908.574.200 / Fax: 44.1908.574.300
- Asia/Pacific Tel: 81.44.844.8296 / Fax: 81.44.844.8298

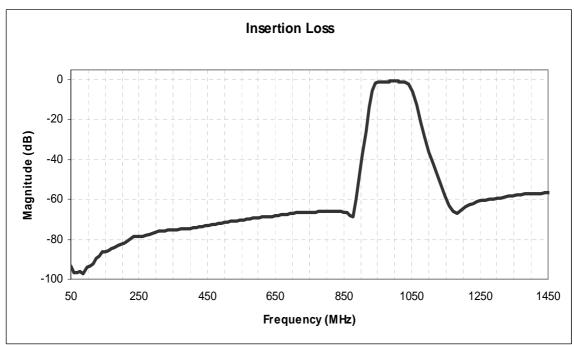
Visit www.macom.com for additional data sheets and product information.



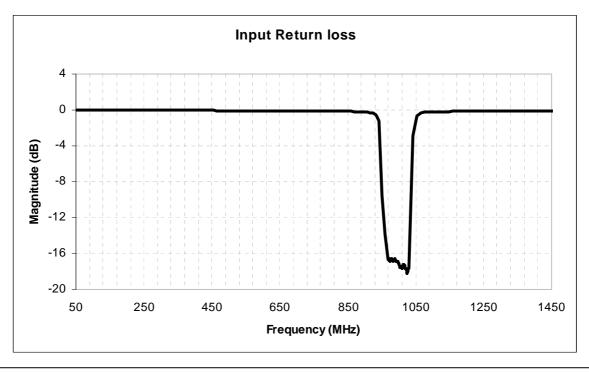
# 50 - 870 / 975 - 1025 / 1125 - 1425MHz

### **Typical Performance Curves**

#### Insertion Loss



#### Input Return Loss



4

M/A-COM Inc. and its affiliates reserve the right to make changes to the product(s) or information contained herein without notice. M/A-COM makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does M/A-COM assume any liability whatsoever arising out of the use or application of any product(s) or information.

• North America Tel: 800.366.2266 / Fax: 978.366.2266

• Europe Tel: 44.1908.574.200 / Fax: 44.1908.574.300

• Asia/Pacific Tel: 81.44.844.8296 / Fax: 81.44.844.8298

Visit www.macom.com for additional data sheets and product information.

V1P