

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

MAFLCT0081
V1P

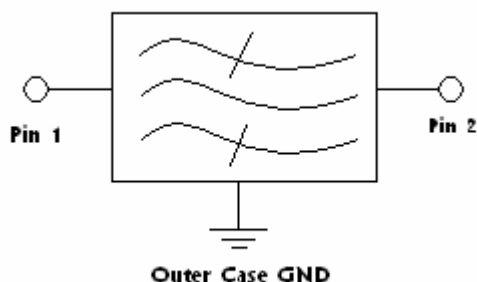
Features

- 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



Pin Configuration

Function	Pin Number
Input Port	1
Output Port	2

Absolute Maximum Ratings ^{1,2}

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

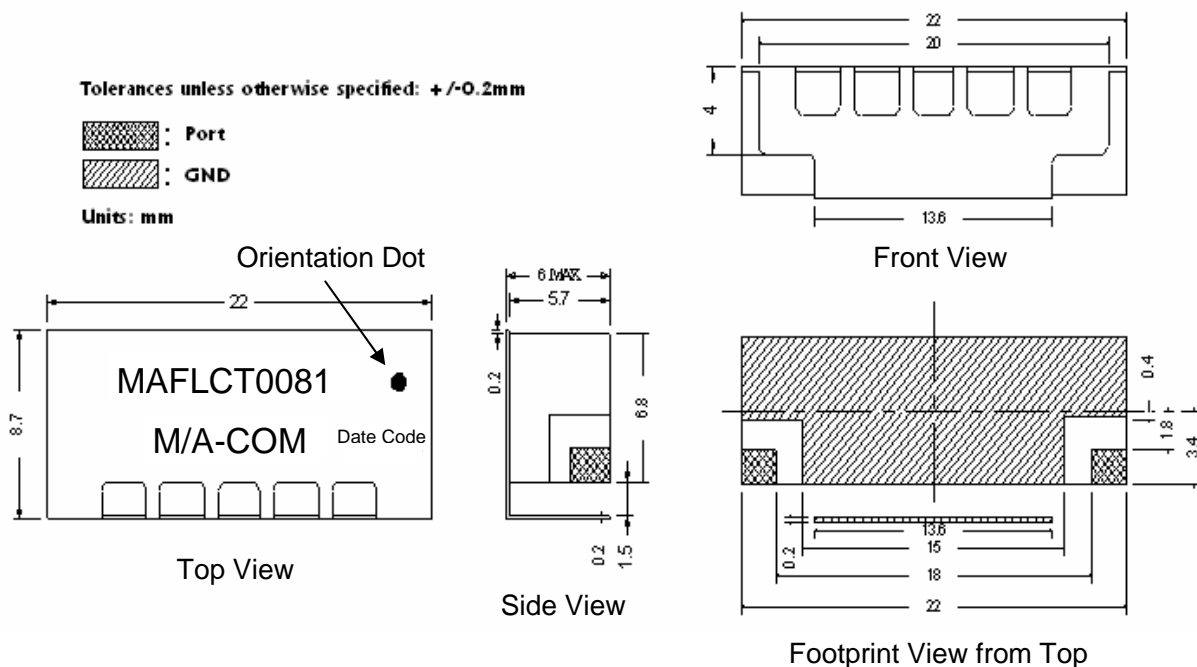
1. Exceeding any one or combination of these limits may cause permanent damage to this device.
2. M/A-COM does not recommend sustained operation near these survivability limits.

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

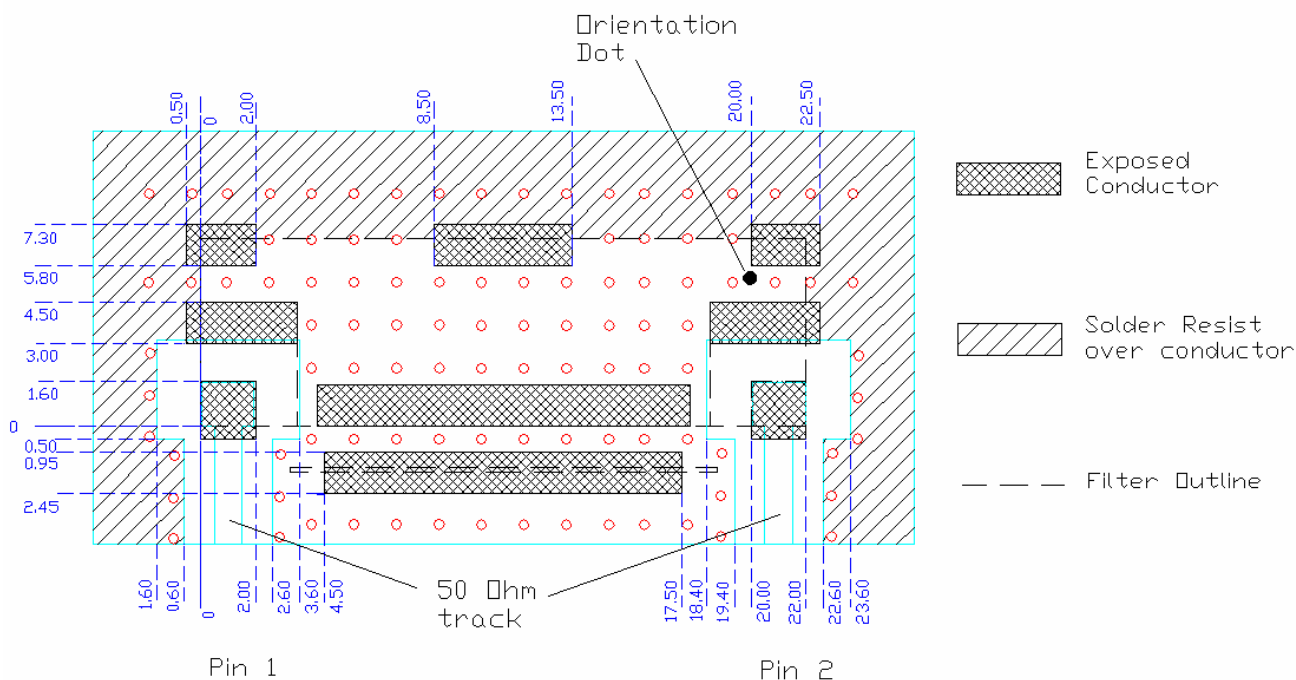
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SM-171 Case Style



Recommended PCB Configuration



Dimensions in mm. Tolerance: $.x \pm 0.1$, $.xx \pm 0.05$

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

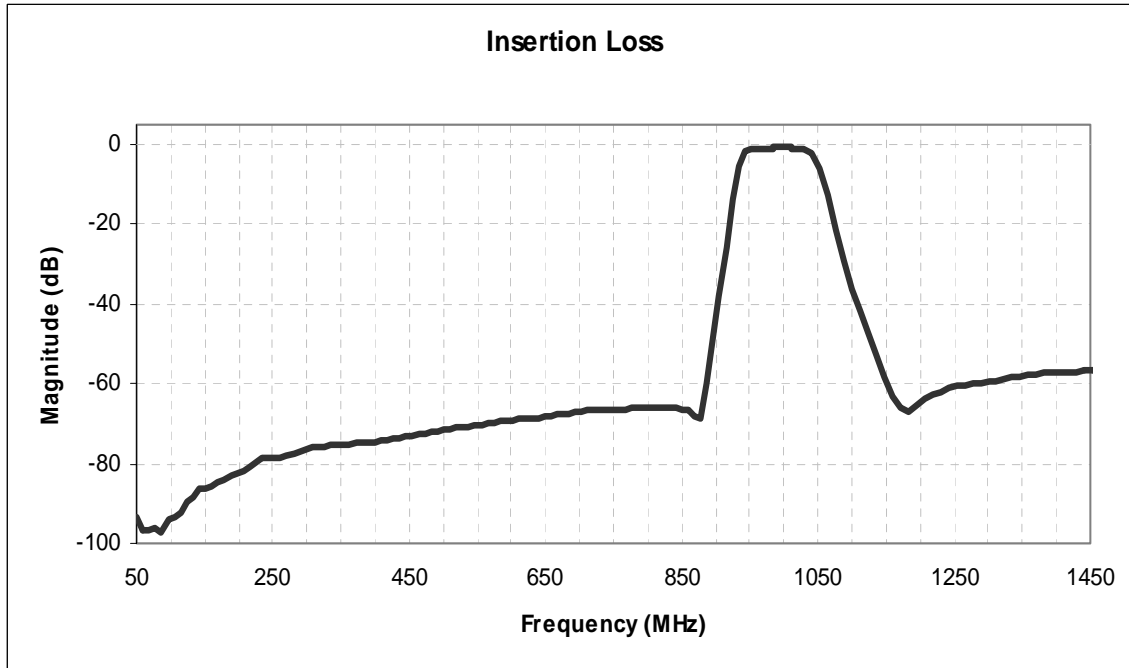
Parameter	Test Conditions	Units	Min	Typ	Max
Frequency Range	50-870 / 975 - 1025 / 1125-1425MHz				
Insertion Loss	975 - 1025MHz	dB		-1.1	-1.2
Stopband Rejection	50 - 870MHz	dB	-45	-65	
Stopband Rejection	1125 - 1425MHz	dB	-45	-56	
Input Return Loss	975 - 1025MHz	dB	-16	-18	

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Typical Performance Curves

Insertion Loss



Input Return Loss

