



MAFLCT0081

V1P

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

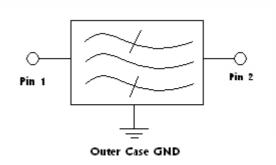
Features

- 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





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.

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

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

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North America Tel: 800.366.2266
Europe Tel: +353.21.244.6400
India Tel: +91.80.4155721
China Tel: +86.21.2407.1588

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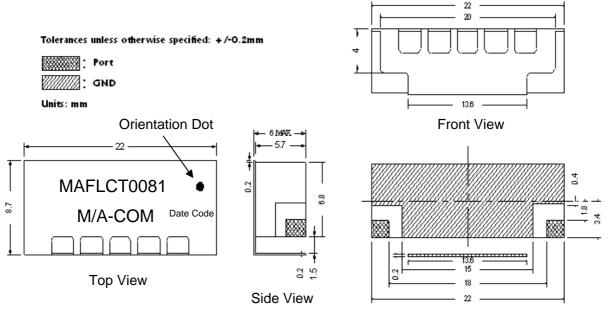




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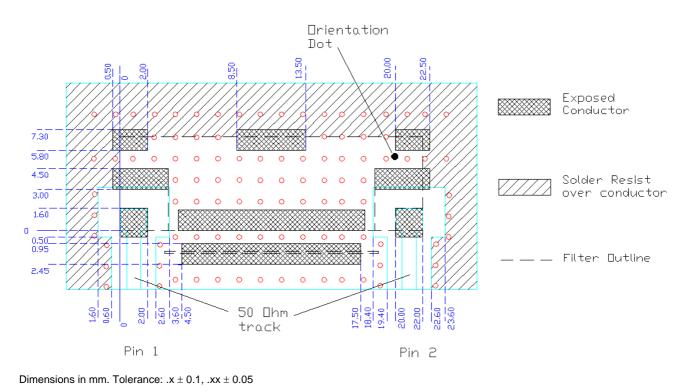
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SM-171 Case Style



Footprint View from Top

Recommended PCB Configuration



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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	

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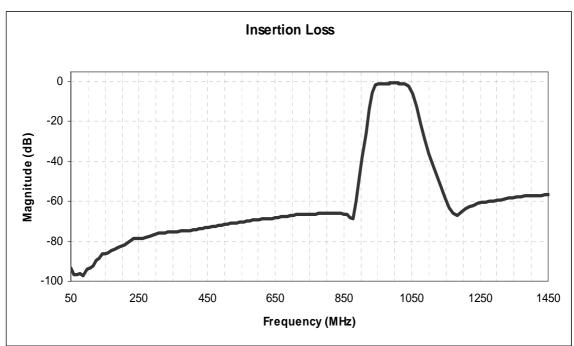




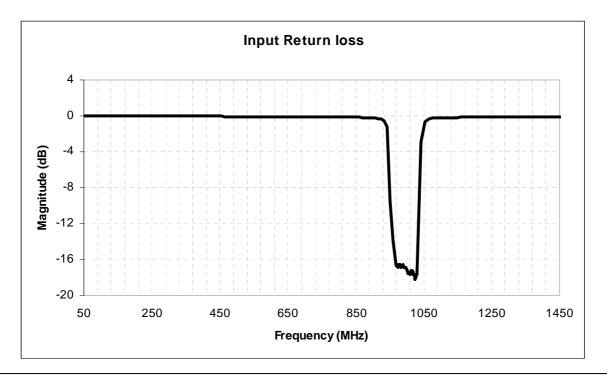
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Typical Performance Curves

Insertion Loss



Input Return Loss



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