



MAFLCT0081 V1P

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

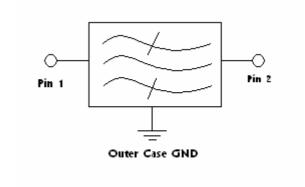
#### **Features**

- 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		

- 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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<sup>\*</sup> Restrictions on Hazardous Substances, European Union Directive 2002/95/EC.

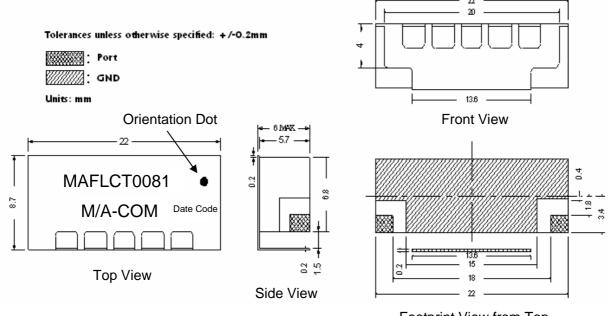




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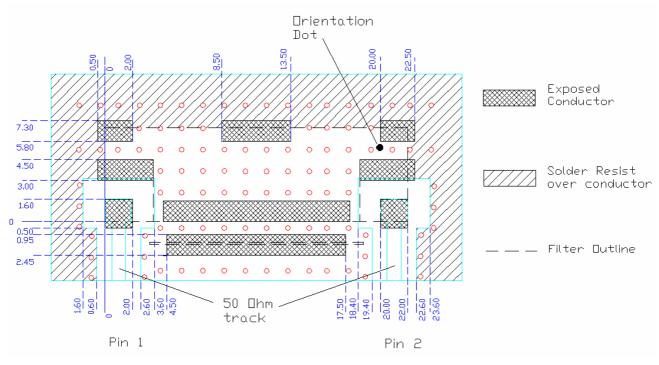
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### SM-171 Case Style



### Footprint View from Top

### **Recommended PCB Configuration**



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

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information.





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Electrical Specifications:  $T_A = 25$ °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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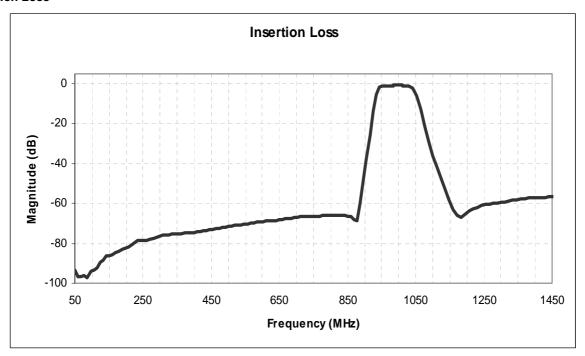


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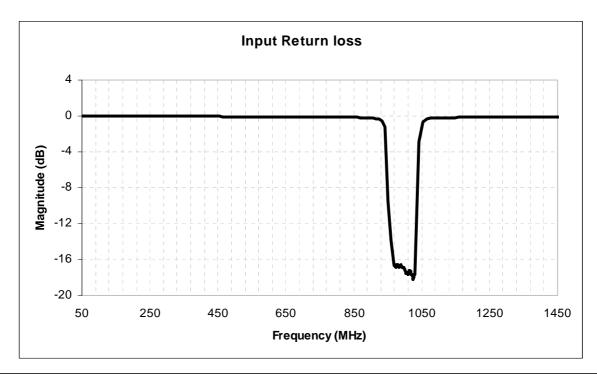
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#### **Typical Performance Curves**

#### Insertion Loss



#### Input Return Loss



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