

M/A-COM Products

CATV Diplex Filter 5 - 1002 / 1125 - 1675 MHz

Features

- 75 Ohm
- SMT unit
- **RoHS** Compliant

Description

M/A-COM's MAFL-009272-CD0AC0 is a surface . mount diplex filter unit designed for MoCA applications.

Ordering Information

Part Number	Package
MAFL-009272-CD0AC0	200 Piece Reel

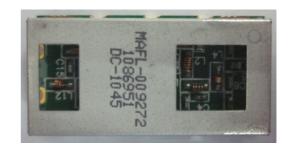
Pin Configuration

Function	Pin Number
Common Port	2
Low Pass Port	10
High Pass Port	4
Ground	1, 3, 5 - 9
Not connected	-

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

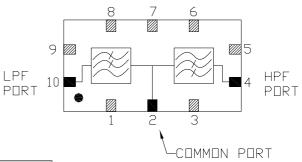
Parameter	Units	Min	Тур	Max
Common to Low				
Insertion Loss				
5 - 42 MHz	dB	-	0.05	0.25
42 - 860 MHz	dB	-	0.6	1.0
860 -1002 MHz	dB	-	1.5	1.7
Rejection				
1130 - 1550 MHz	dB	37	40	-
1550 - 1675 MHz	dB	36	40	-
Common to High				
Insertion Loss				
1125 - 1675 MHz	dB	-	1.7	2.0
Rejection				
5 - 1002 MHz	dB	37	40	-
2250 - 2400 MHz	dB	30	33	-
2400 - 2600 MHz	dB	18	20	-
2600 - 3000 MHz	dB	10	12	-
Common Port Return Loss				
5 - 600 MHz	dB	12	16	-
600 - 950 MHz	dB	11	12	-
950 - 1002 MHz	dB	12	13	-
1125 - 1200 MHz	dB	12	13	-
1200 - 1550 MHz	dB	11	12	-
1550 - 1675 MHz	dB	9.5	11	-
Common port voltage transient	V	-	-	200

Product Image



V5

Functional Schematic



Absolute Maximum Ratings

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

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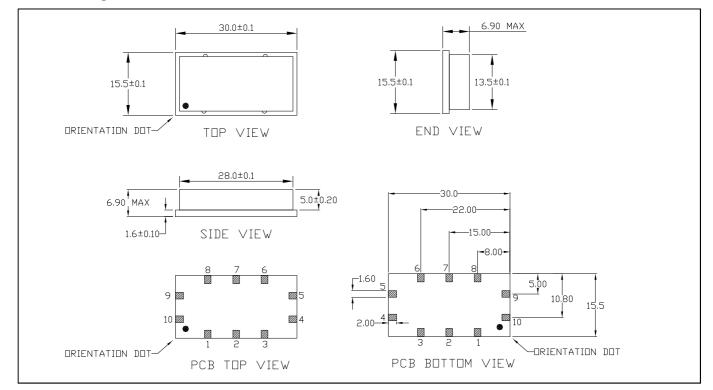
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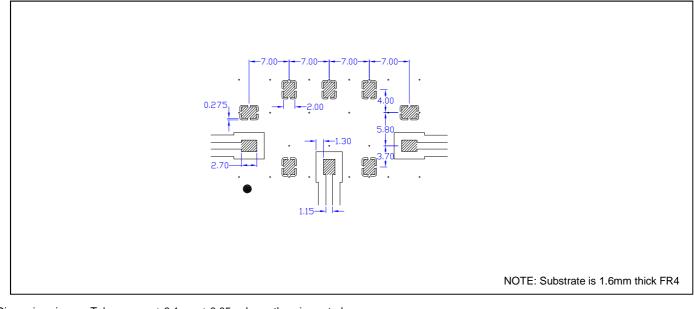
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Outline Drawing: SM-172



Recommended PCB Configuration



Dimensions in mm. Tolerance: .x \pm 0.1, .xx \pm 0.05 unless otherwise noted

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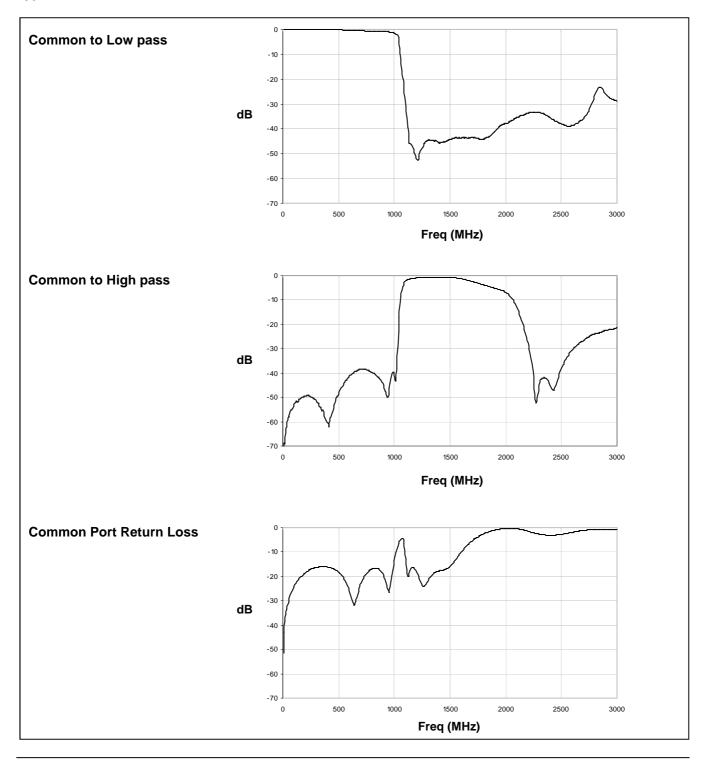
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Typical Performance Curves at +25℃



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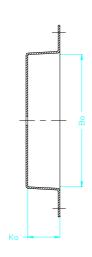
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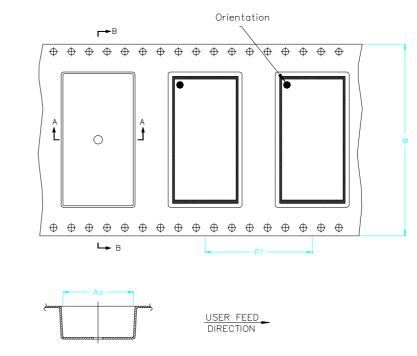
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Tape Specification



Section B-B



Section A-A

ltem	Dimension	
Ao	15.80mm +/- 0.1mm	
Во	30.30mm +/- 0.1mm	
Ко	7.20mm +/- 0.1mm	
W	44.00mm +/- 0.3mm	
P1	24.00mm +/- 0.1mm	

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