



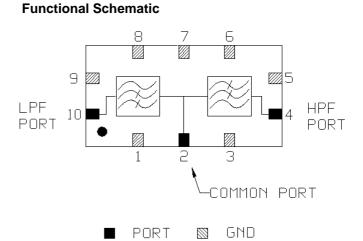
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Description

 M/A-COM Technology Solutions MAFL-011012 is a surface mount diplex filter unit designed for MoCA applications.

Features

- 75 Ohm
- SMT unit
- RoHS* Compliant



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	39	-
1550 - 1675 MHz	dB	36	39	-
Common to High				
Insertion Loss				
1125 - 1675 MHz	dB	_	1.5	2.0
Rejection	uв	_	1.5	2.0
5 - 1002 MHz	dB	37	39	-
2250 - 2400 MHz	dB	30	40	-
2400 - 2600 MHz	dB	18	50	-
2600 - 3000 MHz	dB	10	45	-
Common Port Return Loss				
5 - 600 MHz	dB	12	14	-
600 - 950 MHz	dB	11	14	-
950 - 1002 MHz	dB	12	13	-
1125 - 1200 MHz	dB	12	13	-
1200 - 1550 MHz	dB	11	14	-
1550 - 1675 MHz	dB	9.5	14	-
Common port voltage transient	V	-	-	200

Pin Configuration

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

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	

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

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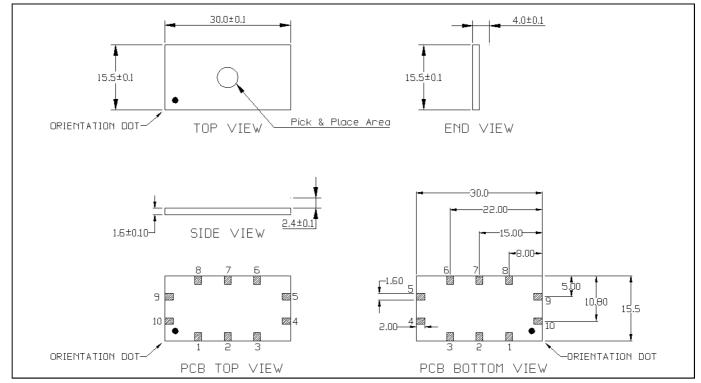
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CATV Diplex Filter 5 - 1002 / 1125 - 1675 MHz

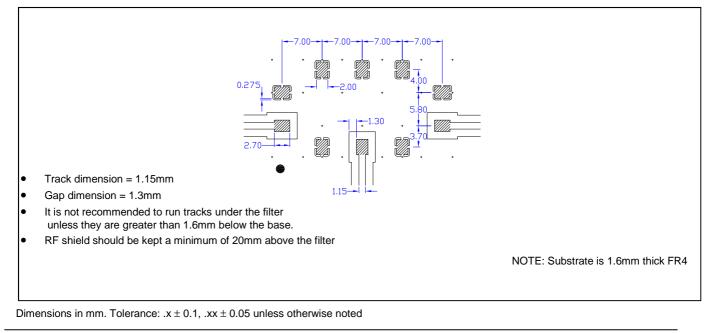
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Outline Drawing:



Dimensions in mm. Tolerance: $.x \pm 0.1$

Recommended PCB Configuration



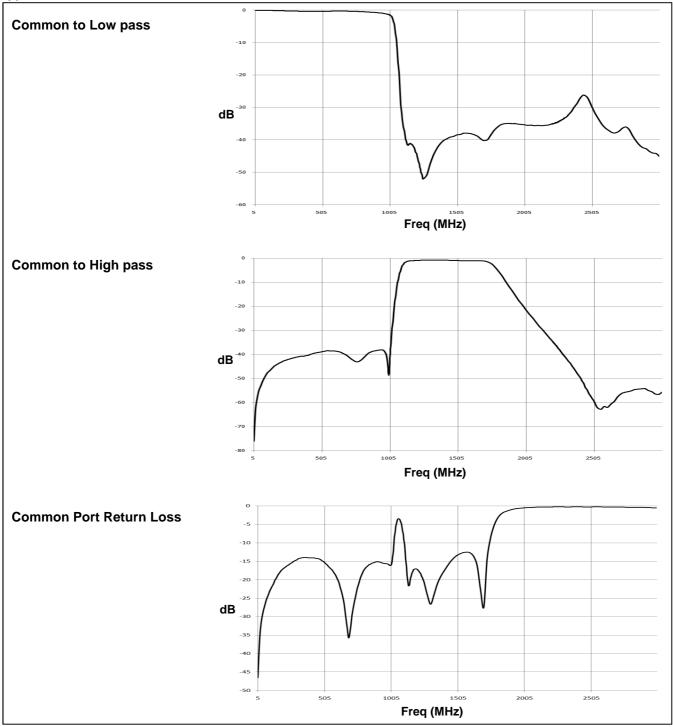
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CATV Diplex Filter 5 - 1002 / 1125 - 1675 MHz

Typical Performance Curves at +25℃



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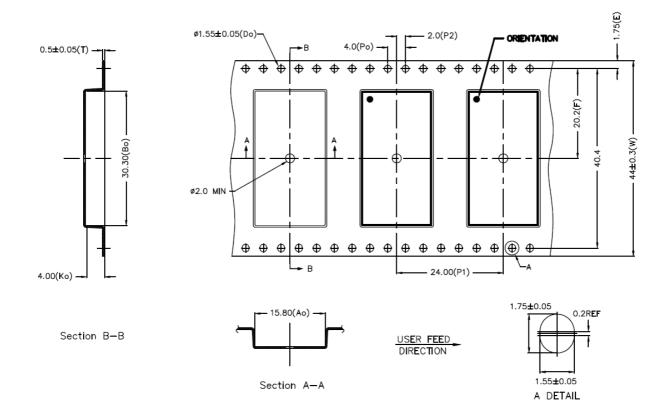
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Tape & Reel Information

Parameter	Units	Value	
Qty per reel	-	500	
Reel Size	mm 330		
Tape Width	mm	44.00	
Pitch	mm	24.00	
Ao	mm	15.80	
Во	mm	30.30	
Ко	mm	4.00	
Orientation	-	F30	
Reference Application Note ANI-019 for orientation			

Ordering Information

Part Number	Package	
MAFL-011012	Tape & Reel	



Rev	Date	Description	СО
V1	12 March 2012	Production Release	CO - 003880

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