

MoCA Triplex Filter

5 - 85 / 105 - 1002 / 1125 - 1675 MHz

Rev. V3

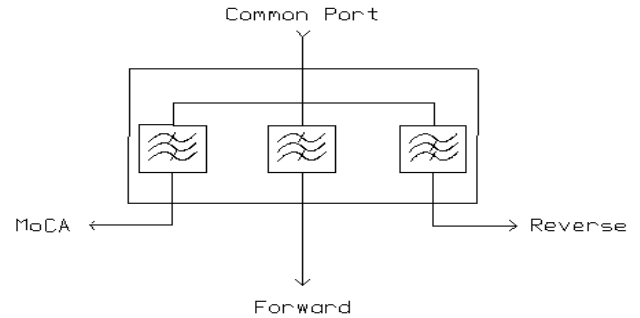
Description

- MACOM Technology Solution's MAFL-011026 is a surface mount triplex filter designed for MoCA applications

Features

- 75 Ohm
- SMT unit
- RoHS compliant

Block Diagram



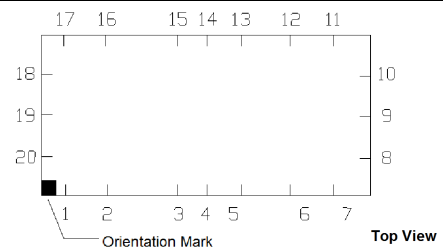
Electrical specifications: $T_A = 25^\circ\text{C}$, $Z_0 75\Omega$

Parameter	Units	Min	Typ	Max
Reverse Path Insertion loss				
5-85 MHz	dB	-	1.2	1.5
Rejection				
105-126 MHz	dB	62	70	-
126-860 MHz	dB	64	70	-
860-1002 MHz	dB	64	70	-
1125-1675 MHz	dB	60	64	-
1675-3000 MHz	dB	30	50	-
Forward path Insertion loss				
105-126 MHz	dB	-	1.5	2.0
126-860 MHz	dB	-	0.75	1.5
860-1002 MHz	dB	-	2.5	2.75
Rejection				
5-38 MHz	dB	50	55	-
38-85 MHz	dB	43	45	-
1125 - 1675 MHz	dB	43	45	-
1675-3000 MHz	dB	20	30	-
MoCA Path Insertion Loss				
1125-1150 MHz	dB	-	2.8	3.0
1150-1650 MHz	dB	-	2.5	2.7
1650-1675 MHz	dB	-	2.5	3.0
Rejection				
5-85 MHz	dB	49	70	-
85-1002 MHz	dB	49	55	-
2300-3000 MHz	dB	25	35	-

Parameter	Units	Min	Typ	Max
Input Return Loss				
5-85 MHz	dB	16	18	-
105-860MHz	dB	16	18	-
860-1002MHz	dB	12	16	-
1125-1675 MHz	dB	12	16	-
Isolation				
Forward to Reverse				
5-38 MHz	dB	55	58	-
38-85 MHz	dB	43	45	-
105-126 MHz	dB	60	65	-
126-860 MHz	dB	60	65	-
860-1002 MHz	dB	60	65	-
Forward to MoCA				
5-85 MHz	dB	49	70	-
105-126 MHz	dB	49	70	-
126-860 MHz	dB	49	53	-
860-1002 MHz	dB	49	55	-
1125-1150 MHz	dB	43	45	-
1150-1650 MHz	dB	43	50	-
1650-1675 MHz	dB	43	50	-

Pin Configuration

Function	Pin Number
MoCA Port	1
Forward Port	4
Reverse Port	7
Common Port	14
Ground	2, 3, 5, 6, 8-13, 15-20



Recommended Maximum Ratings

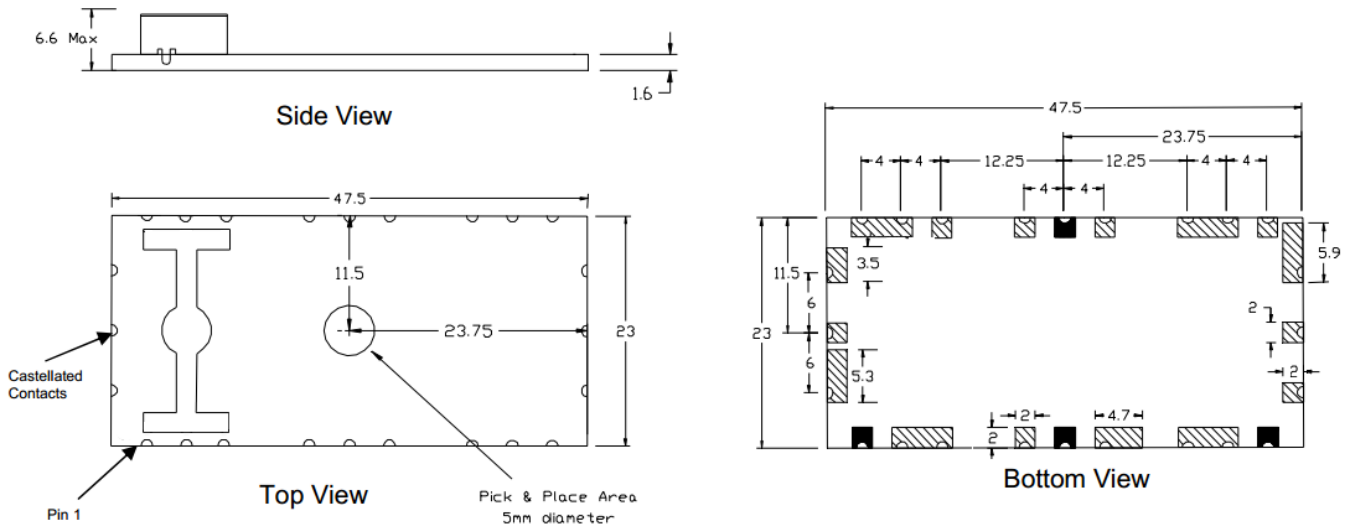
Parameter	Absolute maximum
RF power	250mW
DC current	30mA
Operating temperature	-40°C to +85°C
Storage temperature	-40°C to +85°C

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

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- **North America** Tel: 800.366.2266 / Fax: 978.366.2266
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Filter Dimensions

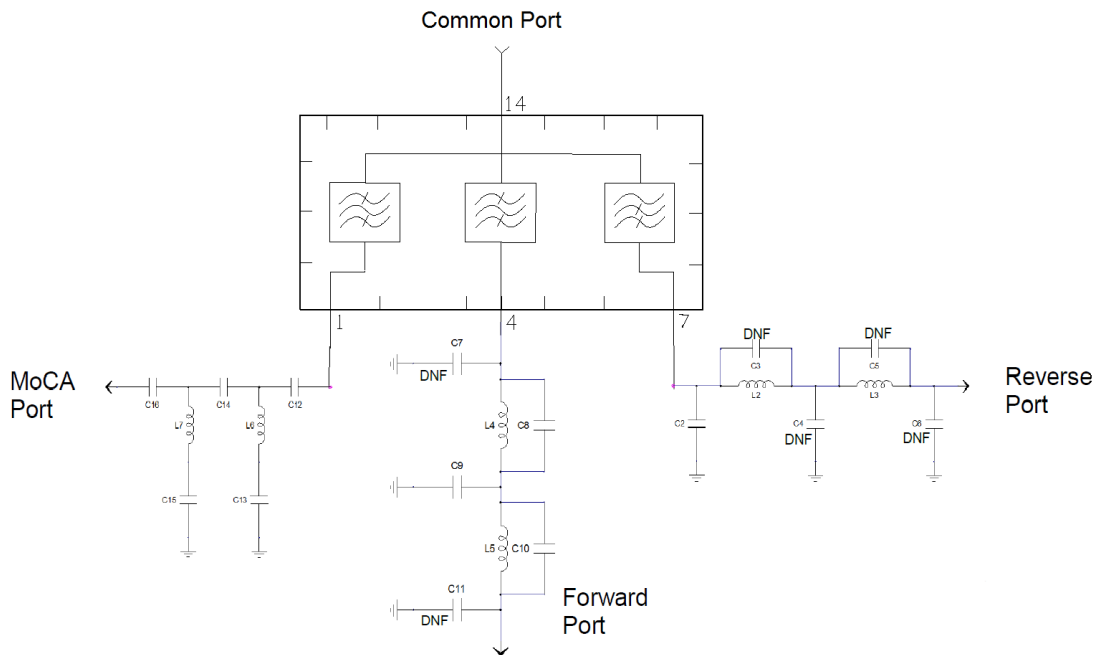


Dimensions in mm. Tolerance: .x ± 0.1 unless otherwise noted

Solder Resist Colour: Black

PCB Pad Finish: ENIG

Application Schematic



DNF: Do Not Fit

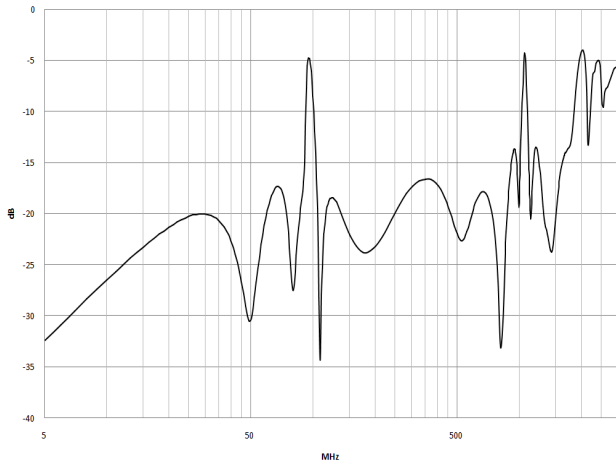
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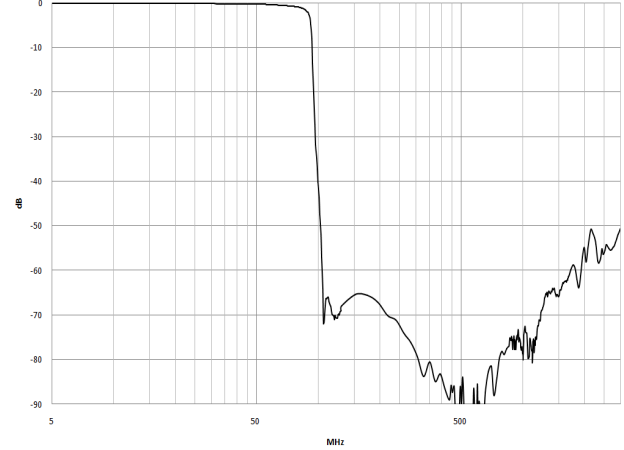
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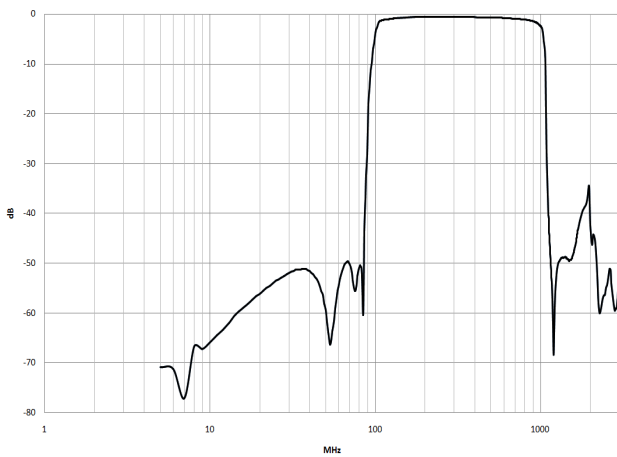
Common Port Return Loss



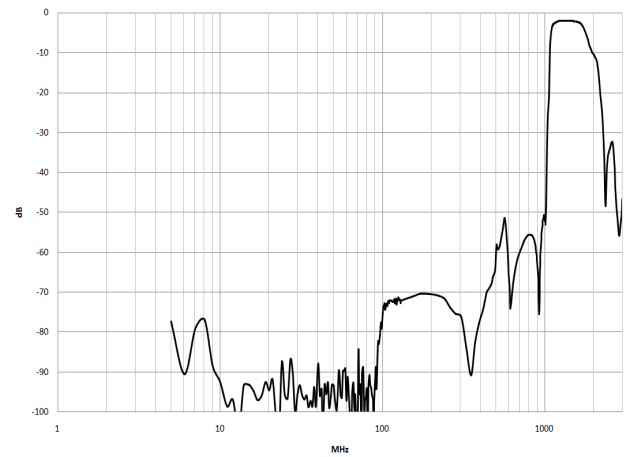
Reverse Path



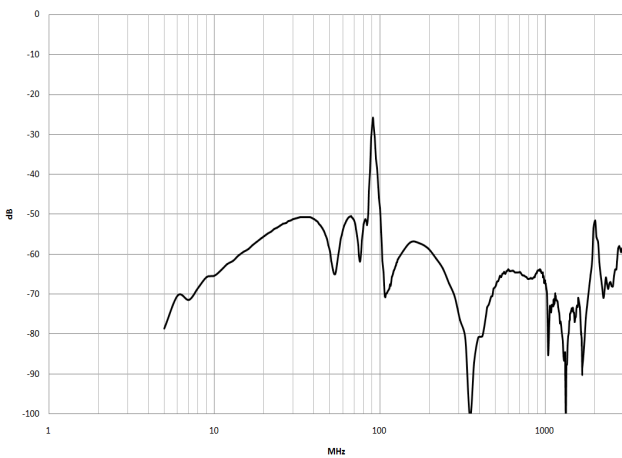
Forward Path



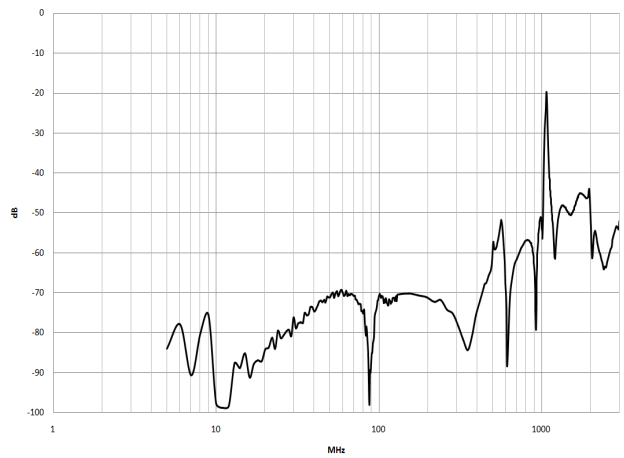
MoCA Path



Reverse to Forward Path Isolation



Forward to MoCA Path Isolation



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MAFL-011026



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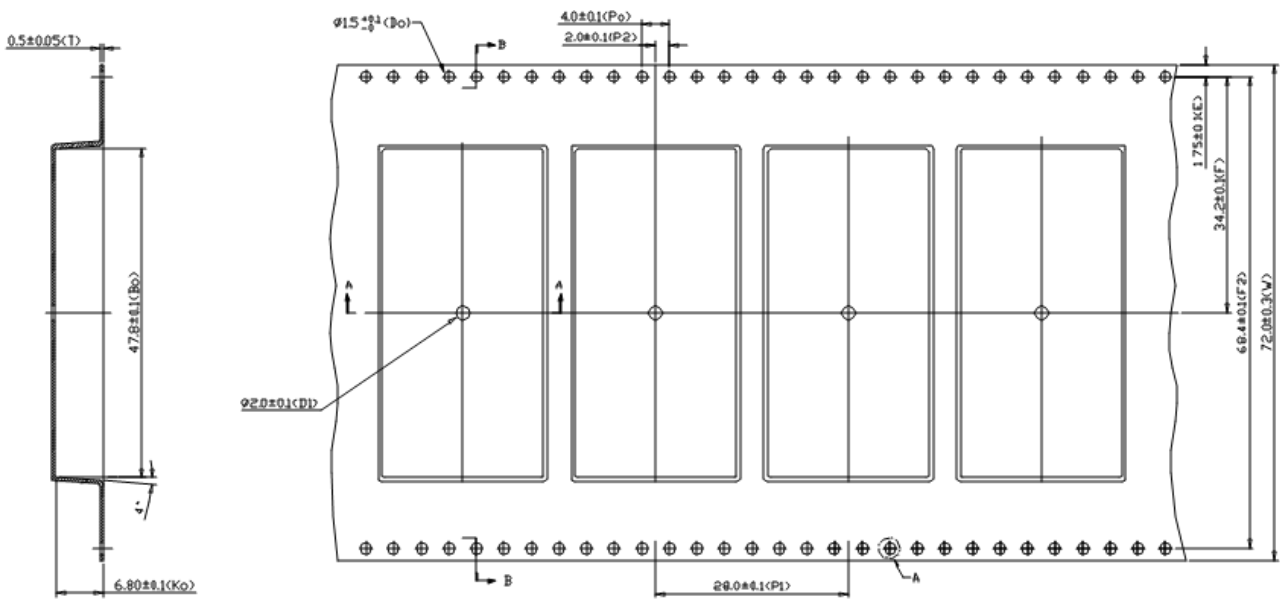
Rev. V3

Tape & Reel Information

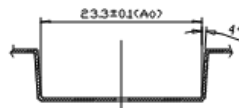
Parameter	Units	Value
Qty per reel	-	200
Reel Size	mm	330
Tape Width	mm	72.0
Pitch	mm	28.0
Ao	mm	23.3
Bo	mm	47.8
Ko	mm	6.8
Orientation	-	F54
Reference Application Note ANI-019 for orientation		

Ordering Information

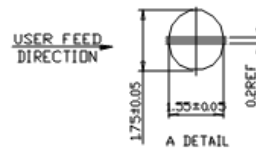
Part Number	Package
MAFL-011026	Tape & Reel



Section B-B



Section A-A



A DETAIL

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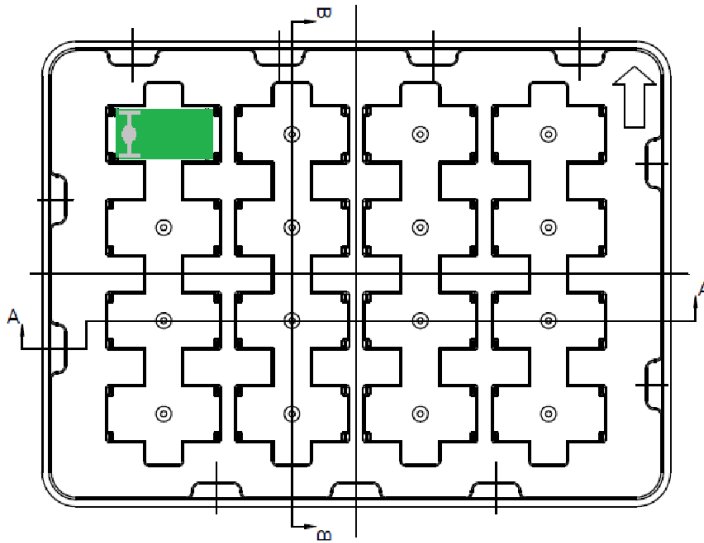
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Tray Information

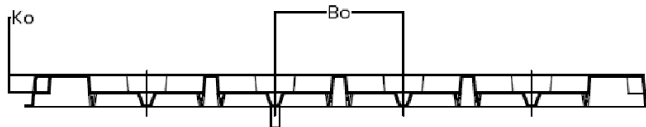
Parameter	Units	Value
Min Order Qty	-	480
Tray Length	mm	270
Tray Width	mm	200
Height	mm	20.8
Ao	mm	40
Bo	mm	55
Ko	mm	7.2
Orientation	-	See below

Ordering Information

Part Number	Package
MAFL-011026-Tray	Tray



Section B-B



Section A-A

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