MAFL-011049



Horizontal Plug-in Diplex Filter 5 - 65 / 86 - 1218 MHz

Rev. V1

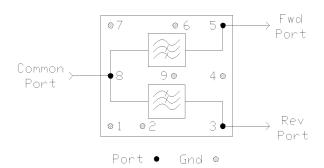
Features

- Plug in Design
- Low Insertion Loss
- · Excellent Cross over Isolation
- Excellent Return loss
- RoHS compliant
- Lead Free

Description

MAFL-011049 is a high performance horizontal plugin diplex filter designed specifically for the CATV infrastructure market.

Functional Schematic



Ordering Information

Part Number	Package
MAFL-011049	200pcs per Box

Pin Configuration

Pin No.	Function		
1,2,4,6,7,9	Ground		
5	Forward Path Port		
3	Reverse Path Port		
8	Common Port		

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

Parameter	Units	Min	Тур	Max
Insertion loss Reverse Path 5 - 65 MHz	dB	_	1.0	1.2
Forward Path 86 - 1218 MHz	dB	_	1.0	1.2
Isolation 5 - 65 MHz 65 - 86 MHz 86 - 1002 MHz 1002 - 1218 MHz	dB dB dB dB	48 38 45 40	51 41 51 45	
Return Loss Common Port 5 - 65 MHz 86 - 750 MHz 750 - 1218 MHz	dB dB dB	22 22 19	24 24 21	
Group Delay Reverse Path 62 - 63.5 MHz 63.5 - 65 MHz	nSec nSec		10 17	
Forward Path 112.25 - 116.68 MHz 120.25 - 124.68 MHz	nSec nSec	_ _	17 10	_ _

Recommended Maximum Ratings^{1,2}

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

^{1.} Exceeding any one or combination of these limits may cause permanent damage to this device.

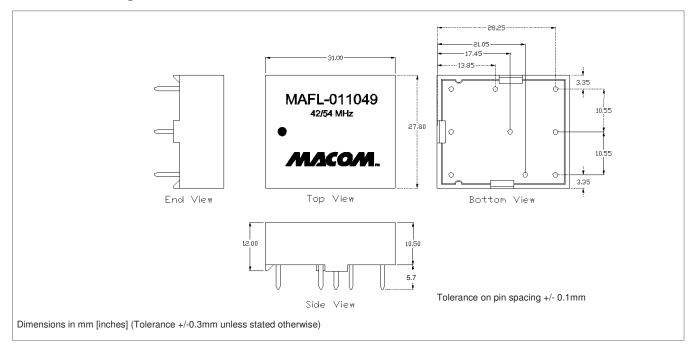
^{2.} MACOM does not recommend sustained operation near these survivability limits.



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Outline Drawing



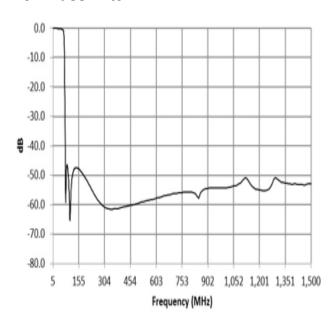


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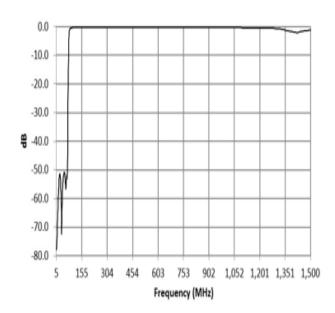
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Typical Performance Curves:

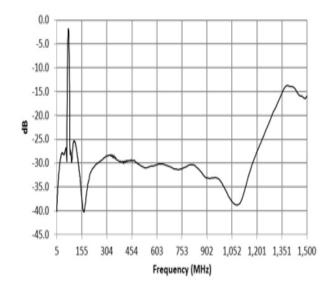
Low Pass Filter



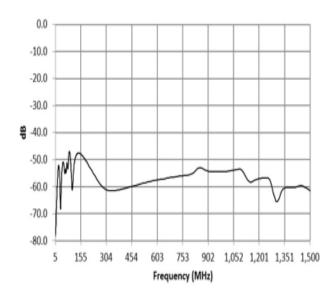
High Pass Filter



Common Port Return Loss



Isolation



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