

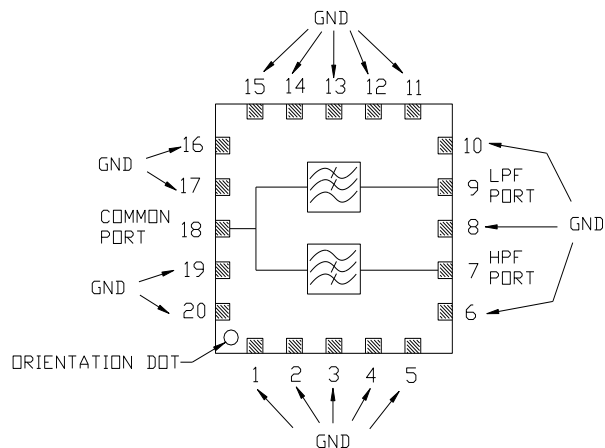
## Features

- 75 Ohm
- SMT unit
- RoHS Compliant and Pb free

## Description

MAFL-011057 is a Low Cost, surface mount Diplex Filter unit designed for CATV applications, DTV and DBS applications.

## Functional Schematic



## Ordering Information

Part Number	Package
MAFL-011057	200

## Pin Configuration

Function	Pin Number
Common Port	18
Low Pass Port	9
High Pass Port	7
Ground	1 - 6, 8, 10-17, 19, 20
Not connected	-

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

Parameter	Units	Min	Typ	Max
<b>Insertion Loss</b> 5 - 85 MHz	dB	-	0.5	1.5
	102 - 1218 MHz		0.5	1.5
<b>Insertion Loss Flatness</b> 5 - 85 MHz	dB	-	-	0.8
<b>Filter Rejection</b> 5 - 85 MHz	dB	43	50	-
	102 - 1218 MHz	dB	43	50
<b>Filter Return Loss (all ports)</b> 5 - 85 MHz	dB	17	19	-
	102 - 1218 MHz	dB	16	18
<b>Group Delay</b> 81.5 - 85 MHz	nSec	-	-	20
	102 - 105.5 MHz	nSec	-	20

### Recommended Maximum Ratings

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

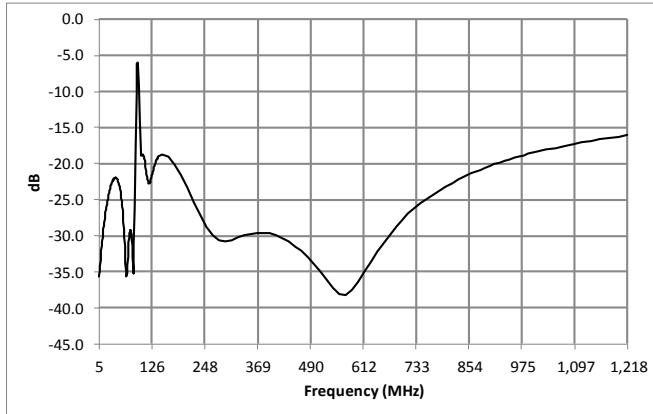


## CATV Diplex Filter 5-85 / 102-1218MHz

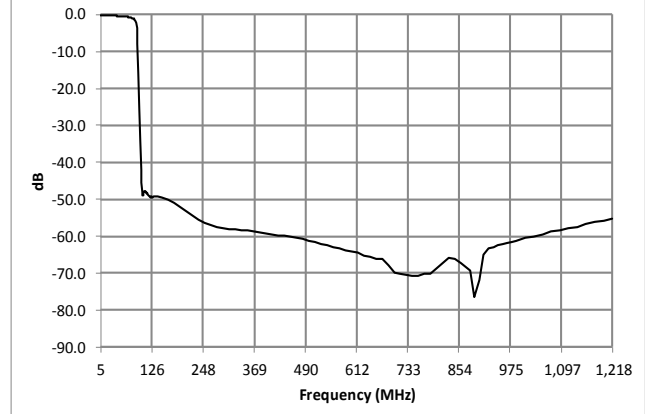
Rev. V2

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

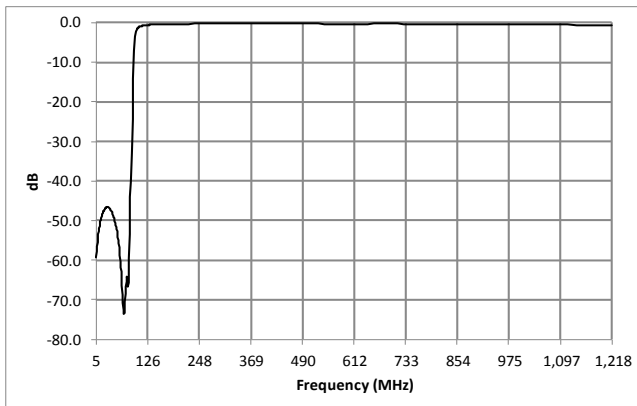
### Input Port Return Loss



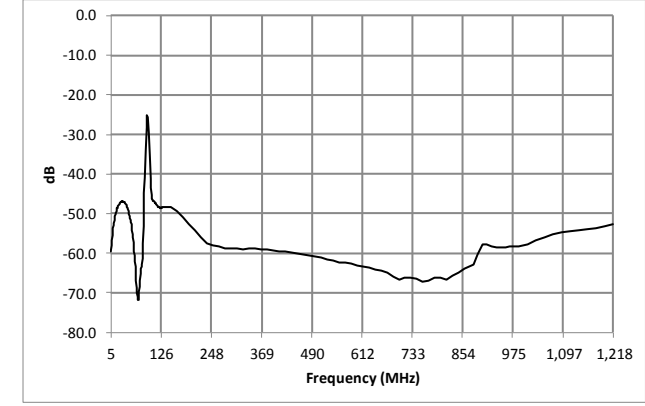
### Low Pass Filter Insertion Loss



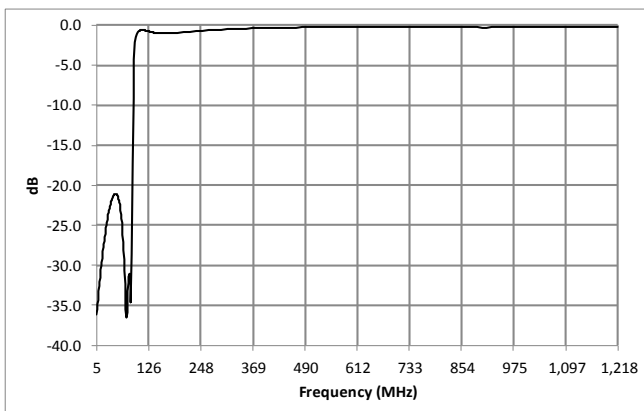
### High Pass Filter Insertion Loss



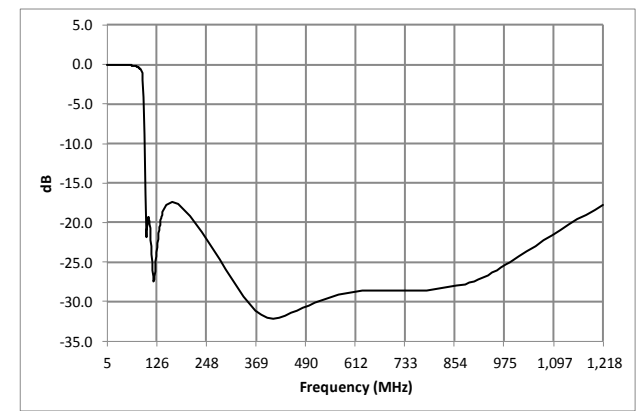
### Filter Isolation



### Low Pass port Return Loss



### High Pass port Return Loss





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