

CATV Diplex Filter 5-65 / 88-1218MHz

Rev. V1

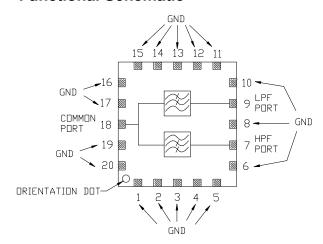
Features

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

Description

MAFL-011056 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-011056	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	-	

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

Parameter	Units	Min	Тур	Max
Insertion Loss 5 - 65 MHz	dB	-	0.5	1.3
88 - 1218 MHz	dB		0.5	1.3
Insertion Loss Flatness 5 - 65 MHz	dB	-	-	0.5
Filter Rejection 5 - 65 MHz	dB	43	50	-
88 - 1218 MHz	dB	43	50	-
Filter Return Loss (all ports) 5 - 65 MHz	dB	18	20	-
88 - 1218 MHz	dB	17	20	-
Group Delay 61.5 - 65 MHz	nSec	-	-	20
88 - 91.5 MHz	nSec	-	-	20

Recommended Maximum Ratings

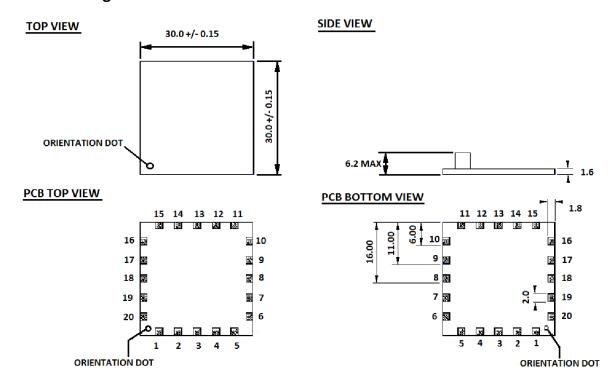
Parameter	Value
Storage Temperature	-40ºC to +85ºC
Operating Temperature	-40ºC to +85ºC
DC Current	30mA
RF Power	250mW



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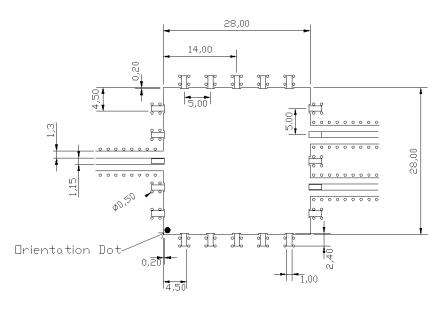
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Outline Drawing



Dimensions in mm. Tolerance: $.x \pm 0.1, .xx \pm 0.05$

Recommended PCB Configuration



Dimensions in mm. Tolerance: $.x \pm 0.1, .xx \pm 0.05$

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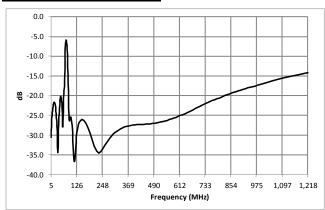


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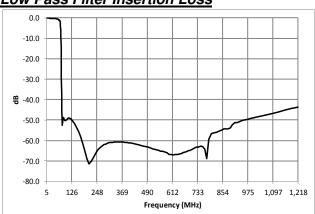
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Typical Performance: $T_A = 25 \,^{\circ}\text{C}$, $Z_0 = 75 \,^{\circ}\text{C}$

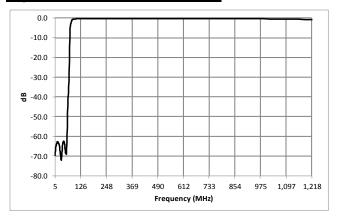
Input Port Return Loss



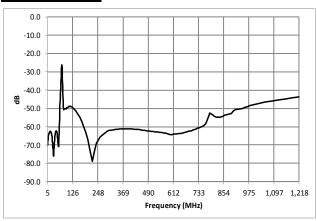
Low Pass Filter Insertion Loss



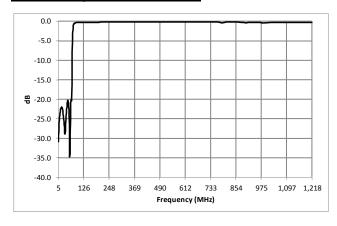
High Pass Filter Insertion Loss



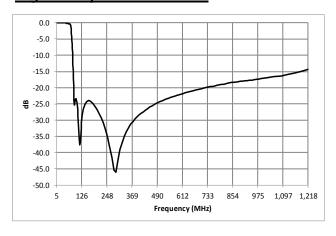
Filter Isolation



Low Pass port Return Loss



High Pass port Return Loss



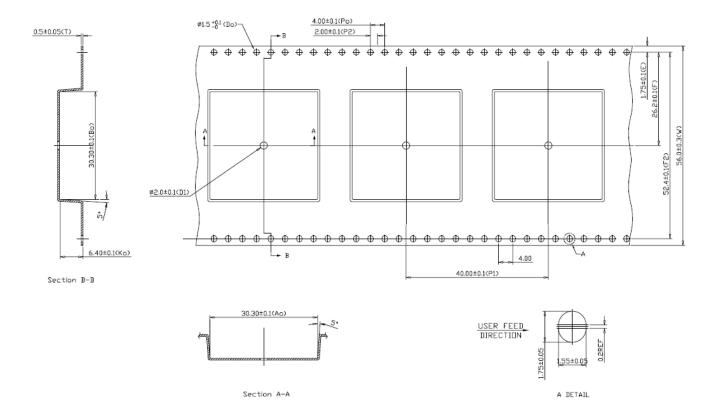


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Tape & Reel Information

Parameter	Units	Value		
Qty per reel	-	200		
Reel Size	mm	330		
Tape Width	mm	56.00		
Pitch	mm	40.00		
Ao	mm	30.3		
Во	mm	30.3		
Ko	mm	6.4		
Orientation	-	F30		
Reference Application Note ANI-019 for orientation				



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