

Rev. V2

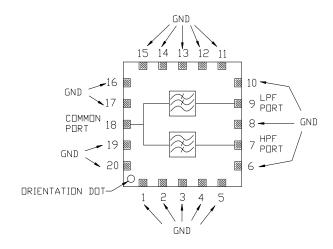
Features

- 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	-		

MAFL-011057



CATV Diplex Filter 5-85 / 102-1218MHz

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

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

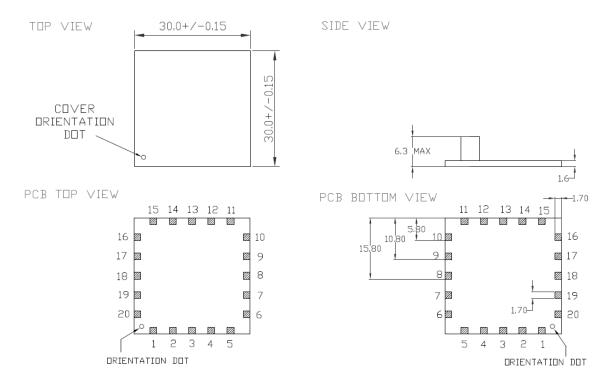
Recommended Maximum Ratings

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



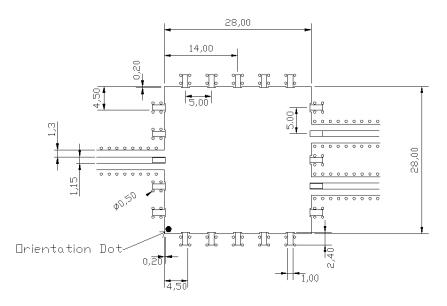
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Outline Drawing



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

Recommended PCB Configuration



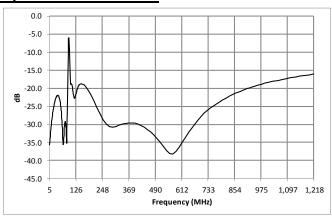
Dimensions in mm. Tolerance: $.x \pm 0.1$, $.xx \pm 0.05$



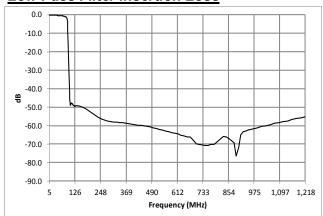
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Typical Performance: $T_A = 25^{\circ}C$, $Z_0 = 75\Omega$

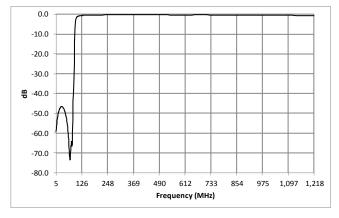
Input Port Return Loss



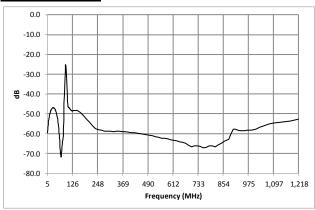
Low Pass Filter Insertion Loss



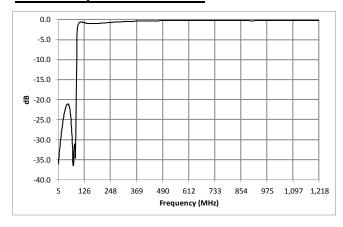
High Pass Filter Insertion Loss



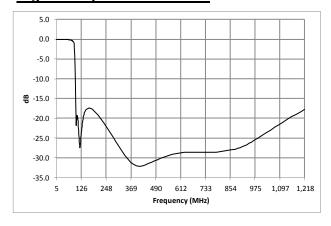
Filter Isolation



Low Pass port Return Loss



High Pass port Return Loss

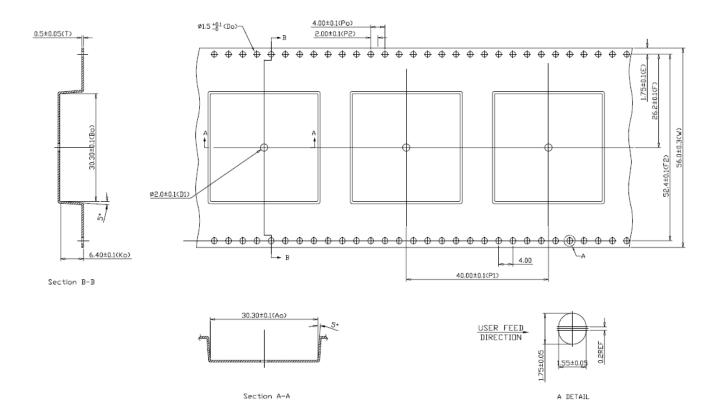




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Tape & Reel Information

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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