

CATV Diplex Filter 5-65 / 88-1002MHz

Rev. V2

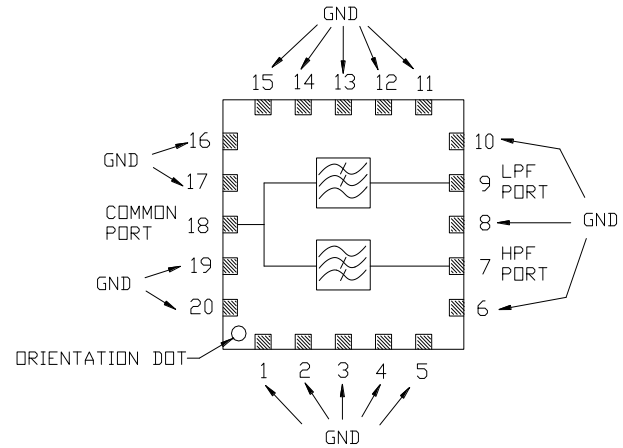
Features

- 75 Ohm
- SMT unit
- RoHS Compliant

Description

The MAFL-011014 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-011014	200 piece reel

Pin Configuration

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

Electrical Specifications:

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

Parameter	Units	Min.	Typ.	Max.
Insertion Loss 5 - 65 MHz 88 - 1002 MHz	dB	—	0.5	1.2 1.2
Filter Rejection 5 - 65 MHz 88 - 1002 MHz	dB	50 50	55 55	—
Filter Return Loss 5 - 65 MHz 88 - 1002 MHz	dB	15 12	20 20	—
Filter Isolation 5 - 65 MHz 88 - 1002 MHz	dB	50 50	55 50	—

Recommended Maximum Ratings

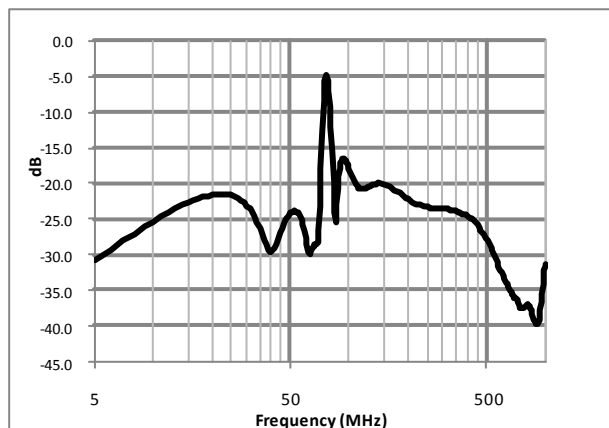
Parameter	Value
Storage Temperature	-40°C to +85°C
Operating Temperature	-40°C to +85°C
DC Current	30mA
RF Power	250mW

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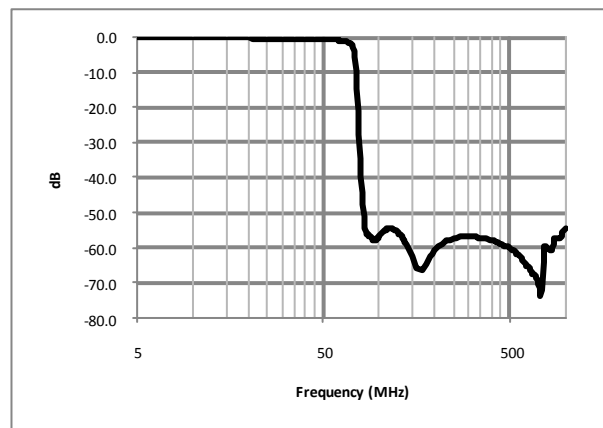
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Typical Performance: $T_A = 25^\circ\text{C}$, $Z_0 = 75\Omega$

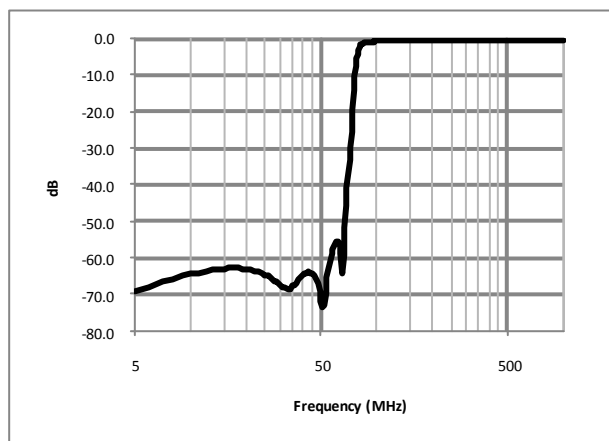
Input Port Return Loss



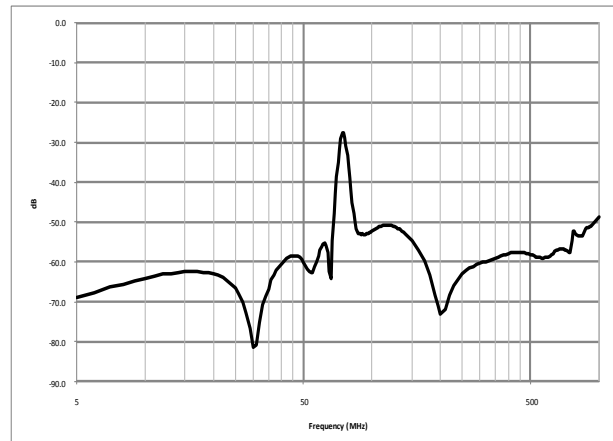
High Pass Filter Insertion Loss



Low Pass Filter Insertion Loss

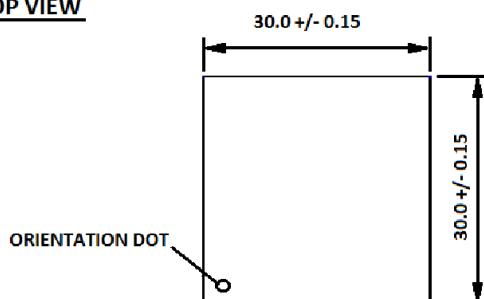


Filter Isolation

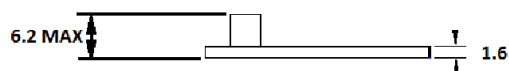


Outline Drawing

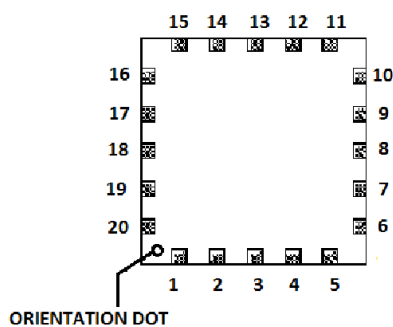
TOP VIEW



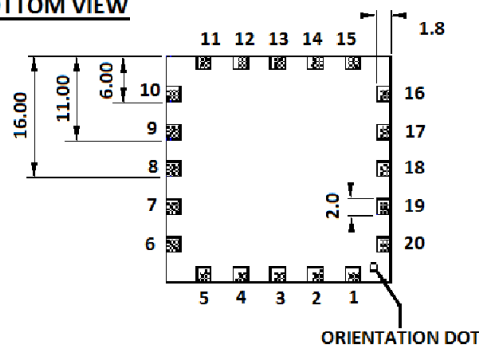
SIDE VIEW



PCB TOP VIEW

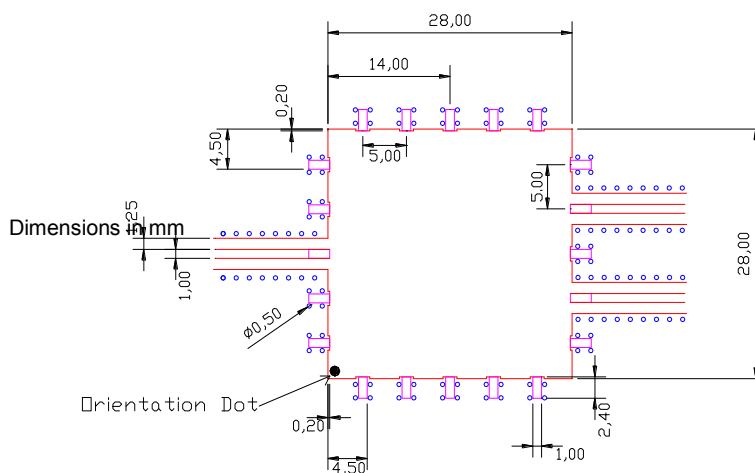


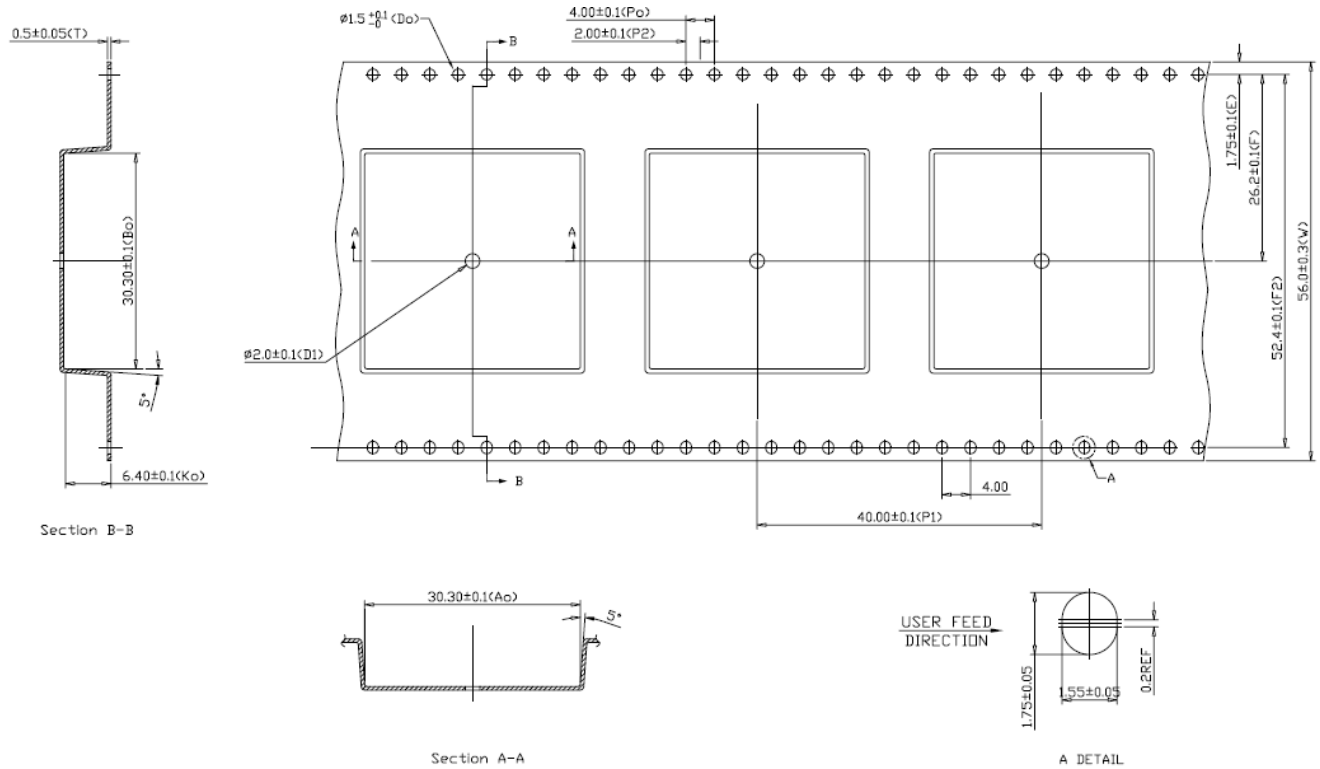
PCB BOTTOM VIEW



Dimensions in mm

Recommended PCB Configuration





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
Bo	mm	30.3
Ko	mm	6.4
Orientation	-	F30
Reference Application Note ANI-019 for orientation		

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