

CATV Diplex Filter 5 - 65 / 88 - 1000MHz



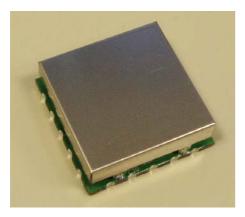
MAFLCT0027 V1

Features

- 75 Ohm
- SMT unit
- Available on Tape and Reel. Reel quantity 50

Description

M/A-COM's MAFLCT0027 is a very low cost, small size, non-hermetically sealed filter unit designed for CATV, DTV and DBS applications. The technology used in the design of this unit is patent pending.



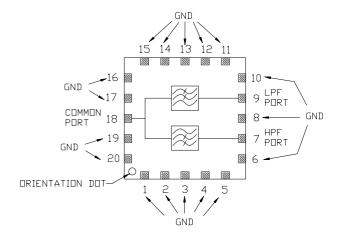
Absolute Maximum Ratings ^{1,2}

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

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

 M/A-COM does not recommend sustained operation near these survivability limits.

Functional Schematic



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	-			

Ordering Information

Part Number	Package			
MAFLCT0027	50 Piece Reel			
MAFL-007988-0027TB	Customer Test Board			

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- Asia/Pacific Tel: 81.44.844.8296 / Fax: 81.44.844.8298

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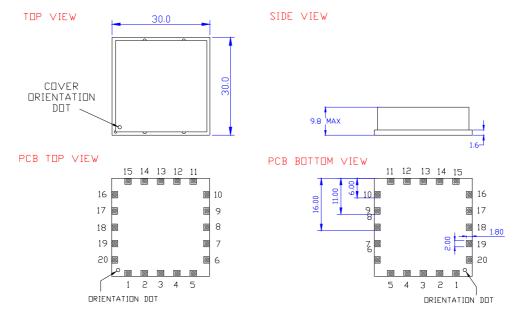


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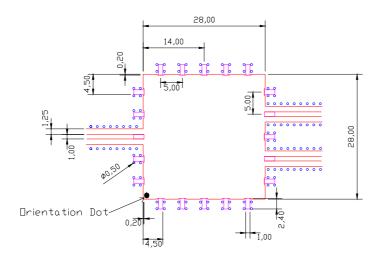
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SM-85 Case Style



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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Electronics



MAFLCT0027 V1

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

Parameter	Units	Min.	Тур.	Max.
Frequency Range 5 – 1000 MHz Low Pass Cutoff 65 High Pass Cutoff 88	MHz MHz	-	-	- -
Insertion Loss (Pass Band) 5 – 65 MHz 88 – 1000 MHz	dB dB	-	0.5 0.5	1.0 1.2
Insertion Loss (Stop Band) 5 – 65 MHz 88 – 1000 MHz	dB dB	45 45	50 50	-
Return Loss Input Port 5 – 65 MHz 88 – 1000 MHz	dB dB	17 17	20 20	-

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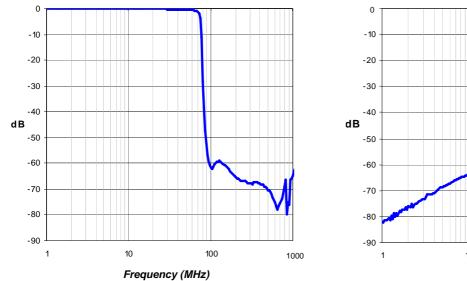


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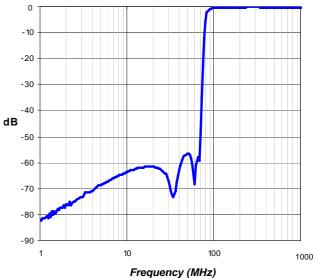


Typical Performance Curves

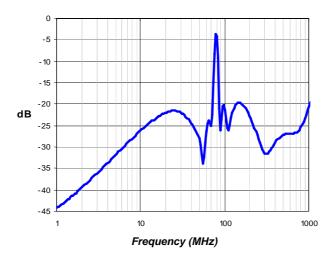
Low Pass Filter Insertion Loss



High Pass Filter Insertion Loss



Input Return Loss



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