

CATV Diplex Filter 5 - 65 / 88 - 1000MHz

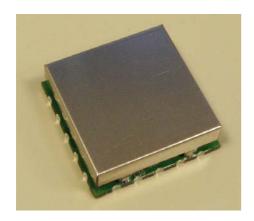
MAFLCT0027 V1

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.

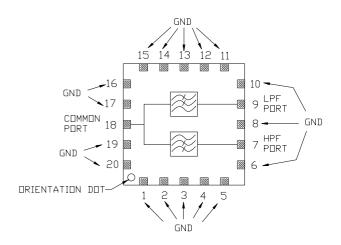


Absolute Maximum Ratings 1,2

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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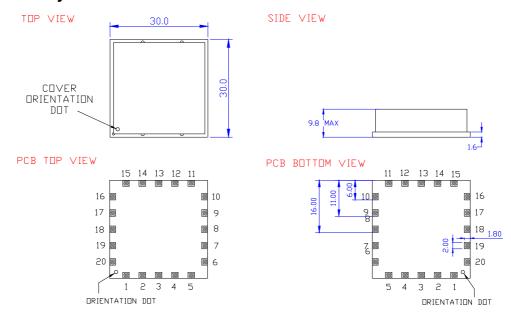
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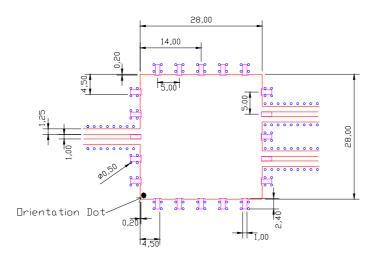
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SM-85 Case Style



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

Recommended PCB Configuration



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Electrical Specifications: $T_A = 25$ °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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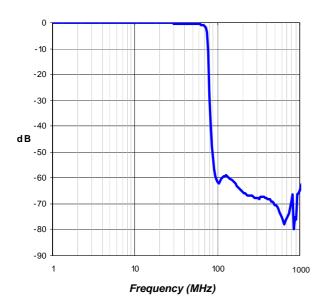


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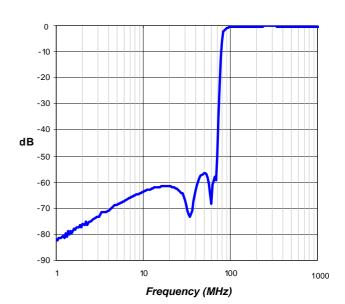
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Typical Performance Curves

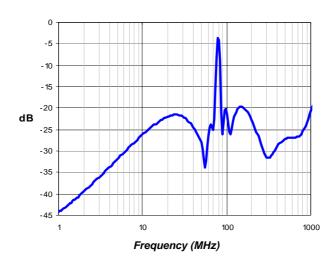
Low Pass Filter Insertion Loss



High Pass Filter Insertion Loss



Input Return Loss



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