



CATV Diplex Filter 5 –65 / 88– 1000 MHz

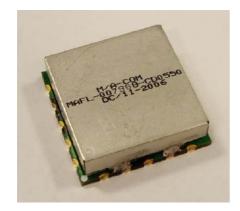
MAFL-007988-CD0550

Features

- 75 Ohm
- SMT unit
- RoHS* Compliant
- RoHS version of MAFLCT0027

Description

M/A-COM's MAFL-007988-CD0550 is a Low Cost, Non Hermetically Sealed Diplex Filter unit designed for CATV, DTV and DBS applications. The technology used in the design of this unit is patent pending.

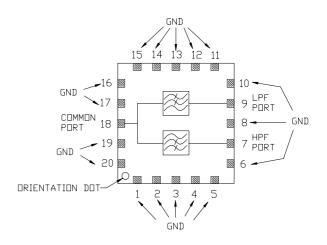


Absolute Maximum Ratings 1,2

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

- 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			
MAFL-007988-CD0550	50 Piece Reel			
MAFL-007988-CD05TB	Customer Test Board			

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- Europe Tel: 44.1908.574.200 / Fax: 44.1908.574.300
- Asia/Pacific Tel: 81.44.844.8296 / Fax: 81.44.844.8298

^{*} Restrictions on Hazardous Substances, European Union Directive 2002/95/EC.

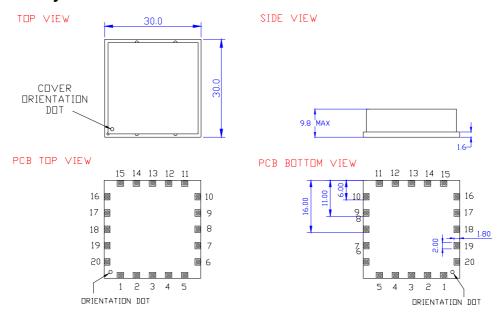




CATV Diplex Filter 5 –65 / 88– 1000 MHz

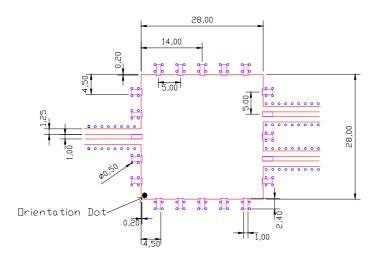
MAFL-007988-CD0550

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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CATV Diplex Filter 5 –65 / 88– 1000 MHz

MAFL-007988-CD0550 V1

Electrical Specifications: $T_A = 25$ °C, $Z_0 = 75\Omega$

Parameter	Test Conditions	Units	Min.	Тур.	Max.
Frequency Range	5—65 MHz / 88– 1000MHz				
Low Pass Filter Insertion Loss:	5 – 65 MHz	dB	-	0.5	1.0
High Pass Filter Insertion Loss:	88 – 1000 MHz	dB	-	0.5	1.2
Filter Isolation	5 – 65 MHz	dB	45	50	-
Filter Isolation	88 – 1000 MHz	dB	45	50	-
Input Return Loss	5 – 65 MHz	dB	17	20	-
Input Return Loss	88 – 1000 MHz	dB	17	20	-

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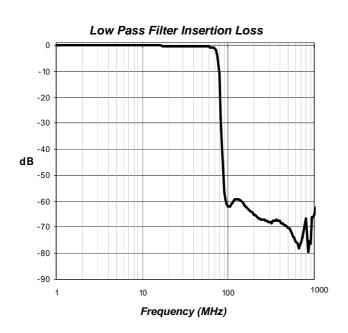


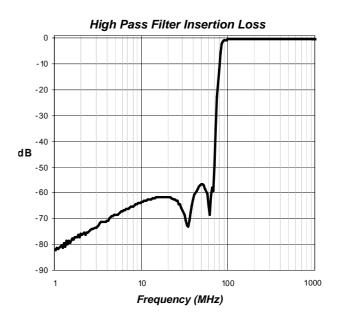


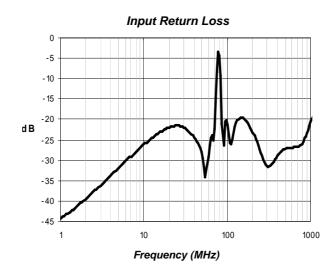
CATV Diplex Filter 5 –65 / 88– 1000 MHz

MAFL-007988-CD0550 V1

Typical Performance







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