MAFL-007988-CD0550

CATV Diplex Filter 5-65 / 88-1000 MHz

Features

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

Description

 M/A-COM Technology Solutions MAFL-007988-CD0550 is a Low Cost, Non Hermetically Sealed surface mount Diplex Filter unit designed for CATV, DTV and DBS applications.

Ordering Information

Part Number	Package	
MAFL-007988-CD0550	50 Piece Reel	
MAFL-007988-CD05TB	Customer Test Board	

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	

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

Parameter	Units	Min	Тур	Max
Low side to Common				
Insertion Loss 5 - 65 MHz Return Loss	dB	-	0.5	1.0
5 - 65 MHz	dB	17	20	-
Rejection 88 - 1000 MHz	dB	45	50	-
High side to Common				
Insertion Loss 88 - 1000 MHz	dB	-	0.5	1.2
Return Loss 88 - 1000 MHz	dB	17	20	-
Rejection 5 - 65 MHz	dB	45	50	-
Low side to High side				
Isolation 5 - 65 MHz 88 - 1000 MHz	dB dB	45 45	50 50	-

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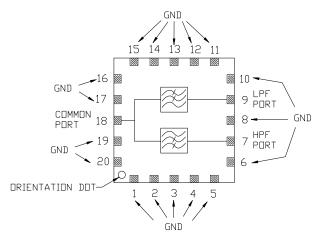
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Functional Schematic



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	-		

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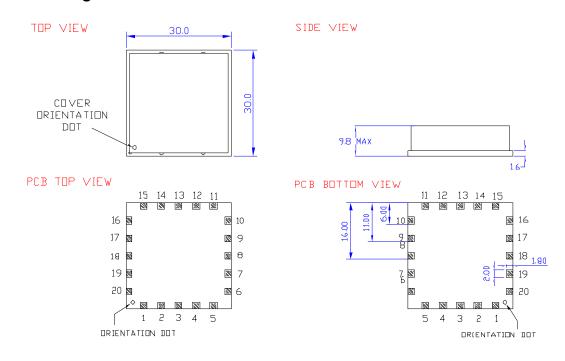
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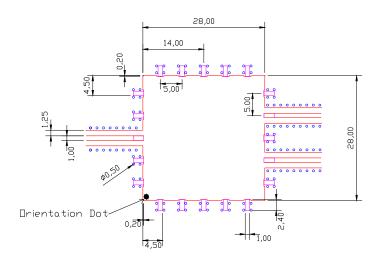
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Outline Drawing - SM-85



Dimensions in mm

Recommended PCB Configuration



Dimensions in mm

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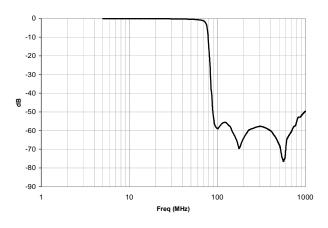


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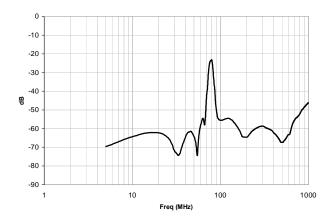
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Typical Performance: $T_A = 25^{\circ}C$, $Z_0 = 75\Omega$

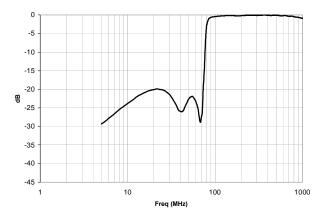
Low Pass Filter Insertion Loss



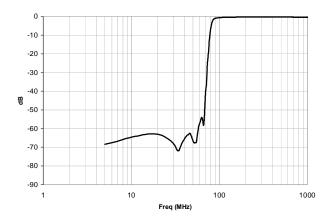
Low Side to High Side Isolation



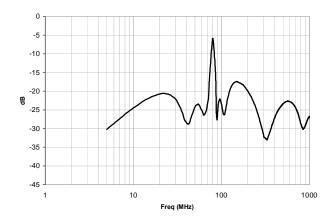
Low Pass Port Return Loss



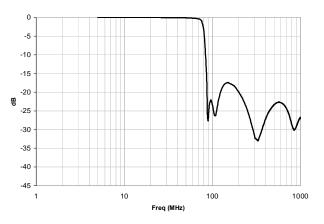
High Pass Filter Insertion Loss



Input Port Return Loss



High Pass Port Return Loss



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