# **BSF-C70+**

 $50\Omega$  56.75 to 83.25 MHz



### CASE STYLE: HU1186

# The Big Deal

- High rejection, 51 dB typical
- Stopband (56.75 to 83.25 MHz)
- Miniature shielded package

### **Product Overview**

The BSF-C70+ is stopband filter fabricated using SMT Technology. Covering 56.75 to 83.25 MHz stopband, this units offer good rejection. This unit uses a miniature high Q capacitors and wire welded inductors for high reliability. It has repeatable performance across production lots and consistent performance across temperature.

# **Key Features**

Feature	Advantages			
High rejection, 51 dB typical	BSF-C70+ enables the filter to attenuate spurious signals and reject harmonics for broadband of frequencies.			
Shielded package	Shielded package (Size of .087" x 0.80" x 0.25") reduced interface with and from the surrounding components.			
Application	Useful in broadcast systems and SATCOM transceiver			

# **Band Stop Filter**

50Q 56.75 to 83.25 MHz

## **BSF-C70+**



CASE STYLE: HU1186 PRICE: \$39.95ea. QTY (1-9)

Typ.

13

51

22

0.7

1.3

Max.

1.2

17

1.5

1.7

Unit

dB

:1

dΒ

:1

dB

:1

Min.

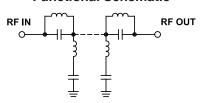
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### **Features**

- · High rejection, 51 dB typical
- · Aqueous washable
- · Miniature shielded package

### **Applications**

- FM radio
- · Broadcast system
- SATCOM transceiver
- Lab use



### **Functional Schematic**



Parameter

Pass Band, Lower

Pass Band, Upper

Stop Band

Insertion Loss

Insertion Loss

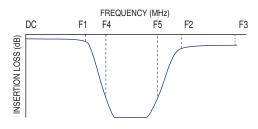
**VSWR** 

**VSWR** 

**VSWR** 

Rejection

### **Typical Frequency Response**



Typical Performance Data at 25°C

Electrical Specifications at 25°C

DC-F1

DC-F1

F4-F5

F4-F5

F2-F3

F2-F3

Frequency (MHz)

DC - 37

DC - 37

56.75 - 83.25

56.75 - 83.25

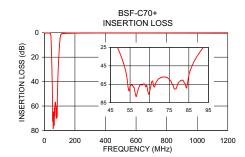
120-1200

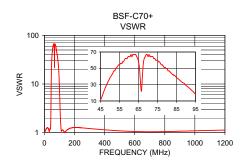
120-1200

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1.00	0.05	1.02
5.00	0.07	1.09
15.00	0.15	1.24
37.00	0.38	1.21
42.00	1.55	2.06
44.00	5.86	6.37
47.00	17.86	23.49
50.00	32.28	38.61
56.75	68.13	57.91
66.50	61.56	22.00
70.00	58.82	64.35
83.25	65.40	42.38
87.00	43.21	34.75
90.00	31.96	28.96
95.00	18.75	18.30
100.00	8.78	7.47
104.00	3.63	2.92
120.00	0.67	1.14
750.00	0.29	1.05
1200.00	0.44	1.13

### + RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.





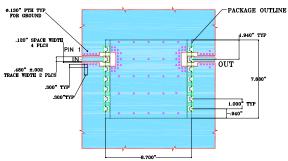


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### **Pin Connections**

INPUT	2
OUTPUT	13
NOT CONNECTED	6,9
GROUND	1.3.4.5.7.8.10.11.12.14

### Demo Board MCL P/N: TB-378 Suggested PCB Layout (PL-347)



- NOISO:

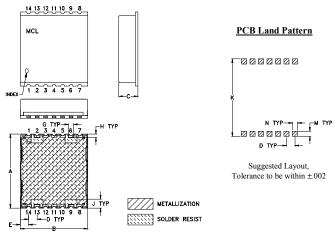
  1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS
  .030"±.003". COPPER: 1/2 0Z. BACH SIDE.
  FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.

  2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.



DENOTES COPPER LAND PATTERN FREE OF SOLDERMASK

### **Outline Drawing**



### Outline Dimensions (inch)

Н	G	F	Е	D	С	В	Α
.040	.060		.097	.100	.25	.800	.870
1.02	1.52		2.46	2.54	6.35	20.32	22.10
wt		Р	N	М	- 1	K	J
grams		-	.060	.060	_	.910	.105
2.85			1.52			23.11	



For detailed performance specs & shopping online see web site

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