Surface Mount Band Stop Filter

50Ω 65 to 85 MHz

The Big Deal

- High rejection, 48 dB typical
- Stopband (65 to 85 MHz)
- Miniature shielded package

BSF-C75+



CASE STYLE: HU1186

Product Overview

The BSF-C75+ is stopband filter fabricated using SMT Technology. Covering 65 to 85 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, 48 dB typical	BSF-C75+ 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	



For detailed performance specs & shopping online see web site

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Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Min-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuit's applicable established test and and Terms'; Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms'; Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms'; Purchasers of this parts.

Surface Mount **Band Stop Filter**

50Ω 65 to 85 MHz

BSF-C75+



Min.

-

30

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

Typ.

0.6

13

48

11

0.7

1.3

Max.

1.5

17

1.5

1.7

Unit

dB

:1

dB

:1

dB

:1

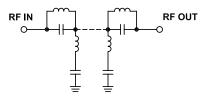
Features

- · High rejection, 48 dB typical
- Aqueous washable
- · Miniature shielded package

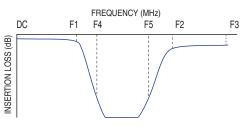
Applications

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

Functional Schematic



Typical Frequency Response



+ 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.

Maximum Ratings				
Operating Temperature	-40°C to 85°C			
Storage Temperature	-55°C to 100°C			
RF Power Input	250 mW max.			

Parameter

Pass Band, Lower

Pass Band, Upper

Stop Band

Insertion Loss

Insertion Loss

VSWR

VSWR

VSWR

Rejection

Permanent damage may occur if any of these limits are exceeded

Typical Performance Data at 25°C						
Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)				
1	0.02	1.01				
25	0.14	1.20				
48	0.54	1.28				
56	4.45	3.16				
58	13.16	9.38				
60	24.68	15.67				
62	39.60	19.98				
65	55.90	25.19				
75	65.61	35.46				
85	54.91	30.49				
89	40.91	24.48				
93	21.00	15.67				
95	13.94	10.31				
98	5.95	3.92				
100	3.03	2.04				
105	1.16	1.10				
110	0.81	1.16				
115	0.62	1.08				
500	0.21	1.03				
1000	0.32	1.10				

Electrical Specifications at 25°C

Frequency (MHz)

DC -48

DC - 48

65 - 85

65 - 85

115 - 1000

115 - 1000

F#

DC-F1

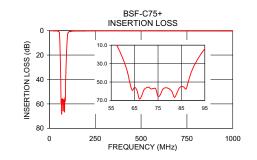
DC-F1

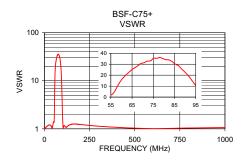
F4-F5

F4-F5

F2-F3

F2-F3







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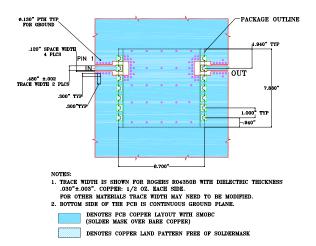
REV. OR M131683 BSF-C75 EDU1284 URJ 110728 Page 2 of 3



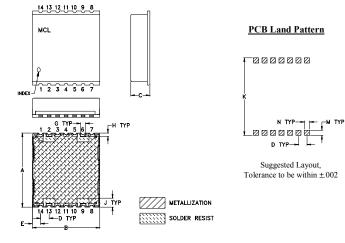
Pin Connections

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)



Outline Drawing



Outline Dimensions (inch)

А	В	С	D	E	F	G	н
.870	.800	.25	.100	.097		.060	.040
22.10	20.32	6.35	2.54	2.46		1.52	1.02
J	к	L	М	Ν	Р		wt
J .105	K .910	L 	M .060	N .060	P 		wt grams



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