Surface Mount **Band Stop Filter**

50Ω 90.365 to 109.635 MHz

The Big Deal

- High rejection, 48 dB typical
- Stopband (90.365 to 109.635 MHz)
- Miniature shielded package



BSF-C100+

CASE STYLE: HU1186

Product Overview

The BSF-C100+ is stopband filter fabricated using SMT Technology. Covering 90.365 to 109.635 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-C100+ 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	Can be used in broadcast and FM system			

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Notes

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BSF-C100+



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Тур.

0.6

12

48

13

0.8

1.3

Max.

1.5

1.6

1.5

1.7

Unit

dB

:1

dB

:1

dB

:1

Min.

-

30

Features

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

Applications

- FM radio
- · Broadcast system
- · Lab use

RF IN

Maximum Ratings Operating Temperature -40°C to 85°C -55°C to 100°C Storage Temperature **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)					
1.000	0.03	1.01					
50.000	0.21	1.17					
70.000	0.56	1.10					
78.000	1.71	1.49					
80.000	3.47	2.48					
83.000	11.01	7.25					
86.000	23.53	12.80					
88.000	34.64	15.13					
90.365	55.46	17.22					
100.000	55.54	16.26					
109.635	55.81	19.98					
113.000	42.76	16.56					
115.000	31.07	13.81					
117.000	21.99	10.50					
122.000	6.06	2.57					
125.000	2.70	1.17					
146.000	0.63	1.14					
500.000	0.20	1.03					
1000.000	0.31	1.10					
1500.000	0.66	1.06					

Electrical Specifications at 25°C

Frequency (MHz)

DC - 70

DC - 70

90.365 - 109.635

90.365 - 109.635

146 - 1500

146 - 1500

F#

DC-F1

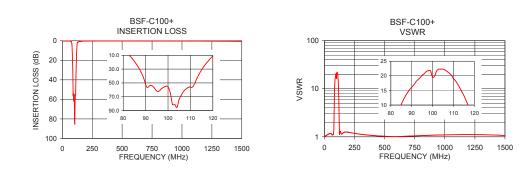
DC-F1

F4-F5

F4-F5

F2-F3

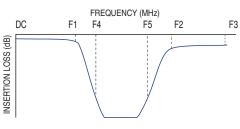
F2-F3



RF OUT

Functional Schematic

Typical Frequency Response



+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

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REV. A M160153 BSF-C100+ EDU1285 URJ/NY 161230 Page 2 of 3

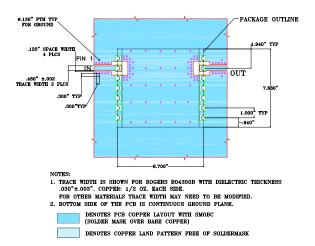




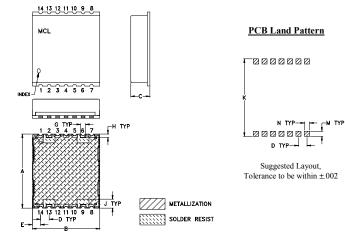
Pin Connections

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	К .910	L 	M .060	N .060	P 		wt grams

Notes

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