Surface Mount Band Stop Filter

50Ω 88 to 108 MHz

The Big Deal

- High rejection, 46 dB typical
- Stopband (88 to 108 MHz)
- Miniature shielded package

BSF-C88108+



CASE STYLE: HU1186

Product Overview

The BSF-C88108+ is stopband filter fabricated using SMT Technology. Covering 88 to 108 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, 46 dB typical	BSF-C88108+ 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



For detailed performance specs & shopping online see web site

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine 2 Provides ACTUAL Data Instantly at minicipality.com

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 Mini-Circuit's applicable established test performance or theria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuit's applicable established test performance or theria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuit's standard limited warranty and terms and conditions (colicitively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms is performed by the specification sheet at www.minicircuits.com/MCLStore/terms.jsp.

Surface Mount Band Stop Filter

50Ω 88 to 108 MHz

Features

- High rejection, 46 dB typical
- Aqueous washable
- Miniature shielded package

Functional Schematic

Typical Frequency Response FREQUENCY (MHz)

RF OUT

Applications

- FM radio
- Broadcast system
- · Lab use

RF IN

DC

INSERTION LOSS (dB)

F1 F4

Comin corours

BSF-C88108+

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

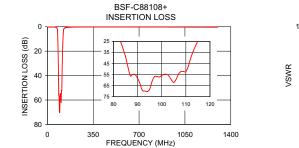
Electrical Specifications at 25°C

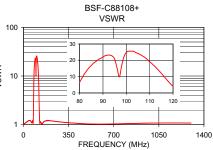
Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
Pass Band, Lower	Insertion Loss VSWR	DC-F1 DC-F1	DC - 66 DC - 66	-	0.5 1.2	1.5 1.6	dB :1
Stop Band	Rejection	F4-F5	88 - 108	30	46	-	dB
	VSWR	F4-F5	88 - 108	-	10	-	:1
Pass Band, Upper	Insertion Loss VSWR	F2-F3 F2-F3	142-1300 142-1300	-	0.7 1.2	1.5 1.6	dB :1

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

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	0.03	1.01		
40	0.17	1.21		
66	0.49	1.10		
75	1.45	1.06		
78	4.44	2.61		
80	11.00	6.53		
82	20.32	11.53		
84	31.75	15.39		
88	54.77	20.45		
97	56.92	9.90		
100	55.83	24.83		
108	52.30	21.73		
114	29.06	13.60		
118	13.74	7.00		
120	8.24	4.09		
124	2.67	1.44		
142	0.64	1.03		
500	0.19	1.04		
1000	0.29	1.08		
1300	0.39	1.08		





ISO 9001 ISO 14001 AS 9100 CERTIFIED 4500 Fax (718) 332-4661 The Desian Engineers Search Engine Constant AC

For detailed performance specs & shopping online see web site

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine 2022 Provides ACTUAL Data Instantly at minicipality.com

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 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 standard Terms'); Purchasers of this part are entited to the rights and benefits contained therein. For a full statement of the Standard Terms'); Purchasers of this part are entited to the rights and benefits contained therein. For a full statement of the Standard Terms'); Purchasers of this part are entited to the rights and benefits contained therein. For a full statement of the Standard Terms'); Purchasers of this part are entited to the rights and benefits contained therein. For a full statement of the Standard Terms'); Purchasers of this part are entited to the rights and benefits contained therein. For a full statement of the Standard Terms'); Purchasers of this part are entited to the rights and benefits contained therein. For a full statement of the Standard Terms'); Purchasers of this part are entited to the rights and benefits contained therein. For a full statement of the Standard Terms'); Purchasers of the standard Terms'; Purchasers of the standard Terms is purchasers of the standard Terms'; Purchasers of the standard Terms'; Purchasers of the standard Terms is purchasers of the standard Terms'; Purchasers of the standard Terms'; Purchasers of the standard Terms'; Purchasers of the standard Terms is purchasers of the stan

REV. OR M131687 BSF-C88108+ EDU1282 URJ 110728 Page 2 of 3

F5

F2

F3

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

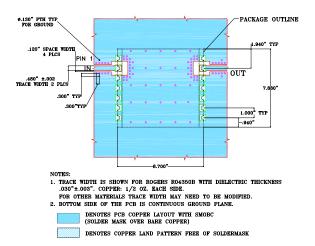
The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.



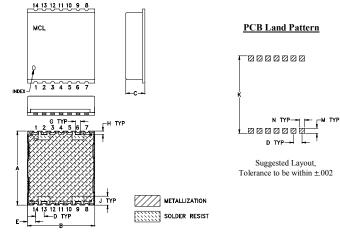
Pin Connections

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



For detailed performance specs & shopping online see web site

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine 2 Provides ACTUAL Data Instantly at minicipation of the Components

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 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 performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuit's and rems"); 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 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 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 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 part are entitled to the rights and the exclusive r