BSF-C88108+

 50Ω 88 to 108 MHz

The Big Deal

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



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		

Notes

A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.

B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.

C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.ninicircuits.com/MCLStore/terms.jsp

Band Stop Filter

50Q 88 to 108 MHz

BSF-C88108+



CASE STYLE: HU1186

Features

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

Applications

- FM radio
- · Broadcast system
- · Lab use

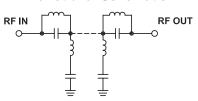
Electrical Specifications at 25°C

Para	meter	F#	Frequency (MHz)	dz) Min. Typ.		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 VSWR	F4-F5 F4-F5	88 - 108 88 - 108	30	46 10	-	dB :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

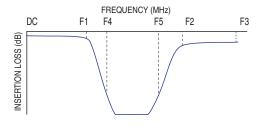
Maximum Ratings				
Operating Temperature	-40°C to 85°C			
Storage Temperature	-55°C to 100°C			
RF Power Input	250 mW max.			

Permanent damage may occur if any of these limits are exceeded.

Functional Schematic



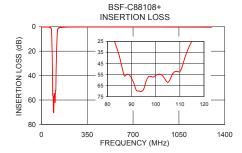
Typical Frequency Response

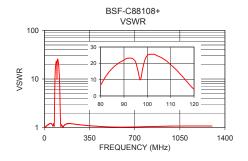


+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

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





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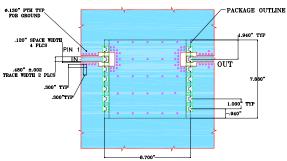
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Pin Connections

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:

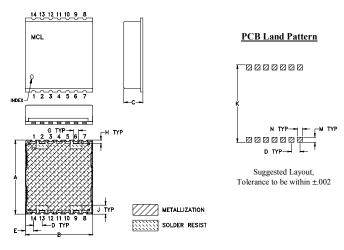
 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS
 .030"±.003". COPPER: 1/2 0Z. BACH SIDE.
 FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.

 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	E	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		Þ	N	М	- 1	K	
grams			.060	.060		.910	.105
•							
2.85			1.52	1.52		23.11	2.67

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