BSF-C100+

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



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		

For detailed performance specs & shopping online see web site

Band Stop Filter

50Ω 90.365 to 109.635 MHz

BSF-C100+



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

Features

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

Applications

- FM radio
- Broadcast system
- · Lab use

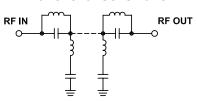
Electrical Specifications at 25°C

Parai	meter	F# Frequency (MHz) Min. Typ.		Max.	Unit		
Pass Band, Lower	Insertion Loss VSWR	DC-F1 DC-F1	DC - 70 DC - 70	-	0.6 1.2	1.5 1.6	dB :1
Stop Band	Rejection VSWR		90.365 - 109.635 90.365 - 109.635	30	48 13	-	dB :1
Pass Band, Upper	Insertion Loss VSWR	F2-F3 F2-F3	146 - 1500 146 - 1500	-	0.8 1.3	1.5 1.7	dB :1

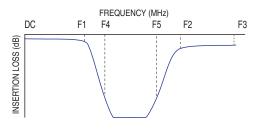
Maximum	Ratings
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	250 mW max.

Permanent damage may occur if any of these limits are exceeded

Functional Schematic



Typical Frequency Response

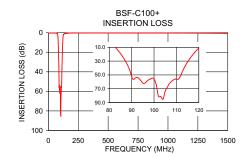


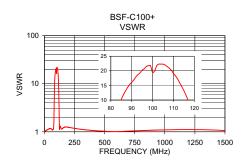
Typical Performance Data at 25°C

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

+ 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.







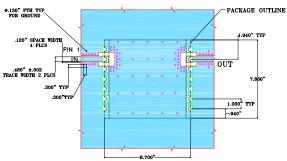
For detailed performance speci & shopping online see web site

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

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:

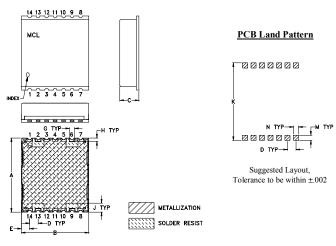
 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS
 .030"±.003". COPPER: 1/2 0Z. BACH SIDE.
 FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.

 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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