Surface Mount Band Stop Filter

50Ω 150.3 to 169.7 MHz

The Big Deal

- High rejection, 48 dB typical
- Good VSWR, 1.2:1 typical in passband
- Stopband (150.3 to 169.7 MHz)
- Miniature shielded package



BSF-C160+

CASE STYLE: HU1186

Product Overview

The BSF-C160+ is stopband filter fabricated using SMT Technology. Covering 150.3 to 169.7 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-C160+ enables the filter to attenuate spurious signals and reject harmonics for broadband of frequencies.		
Good VSWR 1.2:1 typical in the pass- band	This filter maintains typical VSWR over a passband frequency range which provided good interface when used with other devices.		
Shielded package	Shielded package (Size of .087" x 0.80" x 0.25")reduced interface with and from the surrounding components.		



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 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 applicable established test are an entited 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'); Purchaser of this part are entited to the rights and benefits contained therein. For a full statement of the Standard Terms'); Purchaser of this part are entited to the rights and benefits contained therein. For a full statement of the Standard Terms'); Purchaser of this part are entited to the rights and benefits contained therein. For a full statement of the Standard Terms'); Purchaser of this part are entited to the rights and benefits contained therein. For a full statement of the Standard Terms'); Purchaser of this part are entited to the rights and benefits contained therein. For a full statement of the Standard Terms'); Purchaser of this part are entited to the rights and benefits contained therein. For a full statement of the Standard Terms'); Purchaser o

Surface Mount **Band Stop Filter**

50Ω 150.3 to 169.7 MHz

BSF-C160+



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

Typ.

0.6

12

48

7

0.8

1.2

Max.

1.5

16

1.5

1.6

Unit

dB

:1

dB

:1

dB

:1

Min.

-

30

Features

- · High rejection, 48 dB typical
- · Good VSWR 1.2:1 typical in passband

Functional Schematic

Ī Ι

Typical Frequency Response

FREQUENCY (MHz)

F5

F2

RF OUT

- Aqueous washable
- · Miniature shielded package

Applications

RF IN

F1 F4

DC

INSERTION LOSS (dB)

- FM radio
- · Receivers / Transmitters
- Lab use

Maximum Ratings **Operating Temperature** -40°C to 85°C

Parameter

Pass Band, Lower

Pass Band, Upper

Stop Band

Insertion Loss

Insertion Loss

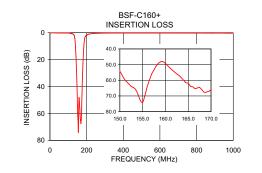
VSWR

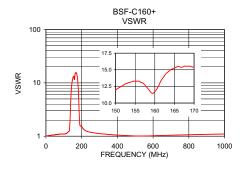
VSWR

VSWR

Rejection

SWR (:1) 1 01 1.04 1.09 1 1 4 1.16 1.61 4.51 7.70 9.04 1.17 8.77 9.74 7.83 4.67 2.09 1.07 1.28 1.12 1.09 1000.0 0.34 1.13







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IF/RF MICROWAVE 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 standard Terms"); Purchasers of this part are entitled to the rights and benefits contained herein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp.

Electrical Specifications at 25°C

Frequency (MHz)

DC - 115

DC - 115

150.3-169.7

150.3-169.7

230-1500

230-1500

F#

DC-F1

DC-F1

F4-F5

F4-F5

F2-F3

F2-F3

Stor	rage Temperature	-55°C to 100°C			
RF	Power Input	250 mW max.			
Perma	nent damage may occur if any o	of these limits are exceeded.			
		Typical Perfo	rmance Data at 2	5°C	
	Frequency (MHz)	Ins	sertion Loss (dB)	V5 (
	1.0		0.03	1	
	30.0		0.06	1	
	80.0		0.16	1	
	115.0		0.51	1	
	130.0		1.53	1	
	135.0		3.60	1	
	140.0		12.25	4	
	144.0 146.0		24.67 32.54	7	
	150.3		55.65	11	
	160.0		49.19	8	
	169.7		66.75	9	
	174.0		49.92	7	
	180.0		23.28	4	
	185.0		9.67	2	
	190.0		3.96	1	
	200.0		1.83	1	
	230.0		0.66	1	
	800.0		0.29	1	

+ 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.

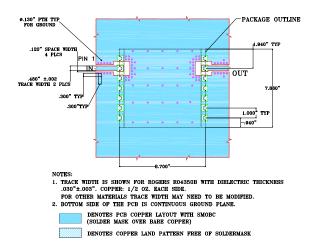
> REV. OR M131675 BSF-C160+ EDU1289 URJ 110712 Page 2 of 3



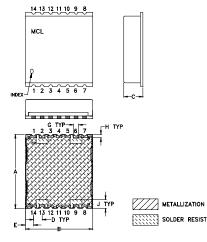
Pin Connections

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



PCB Land Pattern

Suggested Layout, Tolerance to be within ±.002

Outline Dimensions (inch)

A	B	C	D	E	F	G	H
.870	.800	.25	.100	.097		.060	.040
22.10	20.32	6.35	2.54	2.46		1.52	1.02
J	K	L	M	N	P		wt
.105	.910		.060	.060			grams
2.67	23.11		1.52	1.52			2.85



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