Surface Mount **Bandpass Filter**

50Ω 1000 to 1200 MHz

SXBP-1100+

The Big Deal

- · Fast roll-off on the upper sideband
- · Good Matching and low loss in the pass band
- Miniature shielded package



Generic photo used for illustration purposes only CASE STYLE: HF1139

Product Overview

SXBP-1100+ is a wideband bandpass filter in a miniature shielded package covering 1000 to 1200 MHz. This is designed for asymmetric rejection applications such as super-heterodyne receivers. By having asymmetric band, faster roll-off at upper side band is achieved in a comparatively smaller package and lower pass band insertion loss. It has repeatable performance across lots and consistent performance across temperature

Key Features

Feature	Advantages
Fast roll-off on the upper side band	Wide bandwidth filter with fast-roll off on the upper side band, which increases selectivity on the adjacent channel.
Good matching and low loss in pass band	This filter has good matching and low loss in the pass band
Small size, 0.44" X 0.74" X 0.27"	The surface mount package enables the SXBP-1100+ to be used in compact designs.

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-Circuit's tandard 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-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp



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Тур.

1100

1.0

13

30.0

20.0

29.0

20.0

Max.

2.0

23

_

Unit

MHz

dB

:1

dB

:1

dB

:1

Min.

20.0

20.0

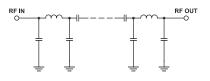
Features

- · Fast roll-off on the upper side band
- Good matching in the pass band
- · Miniature shielded package

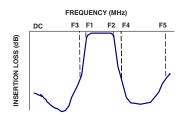
Applications

- Aviation and Aeronautical
- · Aeronautical radio navigation
- · Radar systems
- · Navigation systems

Functional Schematic



Typical Frequency Response





Maximum Ratings		
Operating Temperature	-40°C to 85°C	
Storage Temperature	-55°C to 100°C	
RF Power Input	2 W max.	

Parameter

Pass Band

Stop Band, Lower

Stop Band, Upper

Center Frequency

Insertion Loss

Insertion Loss

Insertion Loss

VSWR

VSWR

VSWR

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

Typical Performance Data at 25°C VSWR Group Delay Frequency (MHz) Insertion Loss Frequency (MHz) (dB) (:1) (nsec) 1737.18 57.02 1 1000 1.75 5 43.13 1737.18 1020 1.78 20 70 31.10 1737.18 1030 1.80 347.44 1040 20.52 1.81 150 14.93 91.43 1050 1.83 600 7.38 15.00 1060 1.86 750 1.89 3.59 5.83 1070 830 1.54 2.79 1080 1.92 880 0.76 1.76 1090 1.96 1000 0.50 1.26 1100 1.99 1100 0.56 1.25 1110 2.03 1200 0.77 1.20 1120 2.08 1235 1.46 1.90 1130 2.13 1265 3.43 3.87 1140 2.18 1300 7.58 9.58 1150 2.24 2.32 1360 15.82 26.33 1160 1400 20.90 36 20 1170 2 41 31.84 1500 51.10 1180 2.51 1750 43.02 69.49 1190 2.64 2200 54.70 78.97 1200 2 79

Electrical Specifications at 25°C

Frequency (MHz)

1000-1200

1000-1200

DC-20

DC-20

1500-2200

1500-2200

F#

F1-F2

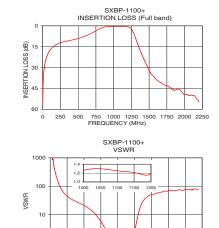
F1-F2

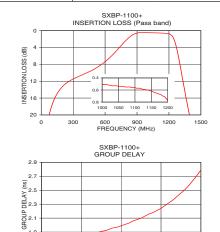
DC-F3

DC-F3

F4-F5

F4-F5





1100 FREQUENCY (MHz) 1150

1.7 L 1000

1050



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0 250

Mini-Circuits

500 750 1000 1250 1500 1750 2000 2250 FREQUENCY (MHz)

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REV. C ECO-005139 SXBP-1100+ EDU1705 URJ 201201 Page 2 of 3

1200