BFCN-5151+

50Ω 4120 to 6440 MHz

The Big Deal

- Small size 3.2mm x 1.6mm
- Pass band (4120-6440 MHz)
- High rejection in upper stopband



CASE STYLE: FV1206-7

Product Overview

The BFCN-5151+ LTCC Band Pass Filter achieves a miniature size and high repeatability of performance. Wrap-around terminations minimize variations in performance due to parasitics. Covering 4120 to 6440 MHz, these units offer excellent rejection over a deep stopband.

Key Features

Feature	Advantages			
Small Size (3.20mm x1.6 mm)	Allows for high layout density of circuit boards, while minimizing effects of parasitics.			
Rejection peaks close to pass band	Provides good rejection of signals close to the pass band, for improved system performance.			
Deep stopband	Upper stopband features transmission zeroes for high rejection.			
LTCC construction	Provides a rugged package that is well suited for tough environments including high humidity and high temperature extremes.			

Ceramic

Bandpass Filter

4120 to 6440 MHz 50Ω

Features

- Small size
- Temperature stable
- Hermetically sealed
- LTCC construction

Applications

- Harmonic Rejection
- Transmitters / Receivers

BFCN-5151+



Generic photo used for illustration purposes only

CASE STYLE: FV1206-7

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

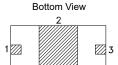


Maximum Ratings

Storage Temperature	-55°C to +100°C
RF Power Input	1W max.

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

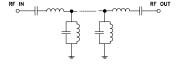
Top View



Pad Connections

Input	1
Output	3
Ground	2

Functional Schematic



Electrical Specifications^{1,2} at 25°C

Para	meter	F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Center Frequency	_			5151		MHz
Pass Band	Insertion Loss	F1-F2	4120-6440	_	1.2	3.0	dB
	Return Loss	F1-F2	4120-6440	_	14	_	dB
Stop Band, Lower	Insertion Loss	DC-F3	DC-3000	20	24	_	dB
Otan Daniel Hanan	Band, Upper Insertion Loss	F4-F5	8820-10450	20	32	_	-ID
Stop Band, Upper		F5-F6	10450-14250	15	25	_	dB

- 1. Measured on Mini-Circuits Characterization Test Board TB-812+.
- 2. This filter is not intended for use as a DC Blocking circuit element. In Application where DC voltage is present at either input or output ports, blocking capacitors are required at the corresponding RF port.

Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)
600	54.74	0.06
1600	31.21	0.20
2400	24.66	0.30
3200	36.16	0.59
3600	7.33	3.18
4000	1.31	15.96
5500	1.00	13.33
6750	1.26	17.18
7250	4.49	4.26
8000	18.44	0.72
9000	38.80	0.48
10000	43.91	0.39
11000	25.41	0.58
13000	32.80	0.36
15000	35.07	0.71

Specification Definition

