

Ceramic

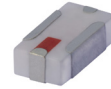
Bandpass Filter

BFCN-1860+

50Ω 1580 to 2200 MHz

The Big Deal

- LTCC construction
- Temperature stable from -55 to +100°C
- Small size (0.126 x .063 X .037")



CASE STYLE: FV1206-4

Product Overview

The BFCN-1860+ LTCC bandpass filter covers the 1580 to 2200 MHz passband with 2 dB passband insertion loss and 20 dB upper/lower stopband rejection. This model handles up to 2.5W RF input power and provides a wide operating temperature range from -55 to +100°C. Utilizing LTCC multi-layer construction, the filter achieves excellent repeatability of performance and comes in a tiny 1206 ceramic package with wraparound terminations, minimizing performance variations due to parasitics and saving space in dense PCB layouts.

Key Features

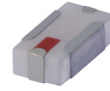
Feature	Advantages
LTCC Construction	Provides a rugged package well suited for tough environments such as high humidity and temperature extremes.
Tiny size (0.126 x .063 x .037")	Saves space in dense circuit boards and minimizes the effects of parasitics.
Wrap-around terminations	Provides excellent solderability and easy visual inspection
Wide operating temperature range, -55 to +100°C	Enables reliable performance in extreme environments



Ceramic Bandpass Filter

50Ω 1580 to 2200 MHz

BFCN-1860+



Generic photo used for illustration purposes only

CASE STYLE: FV1206-4

+RoHS Compliant

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

Available Tape and Reel at no extra cost

Reel Size	Devices/Reel
7"	20, 50, 100, 200, 500, 1000, 3000

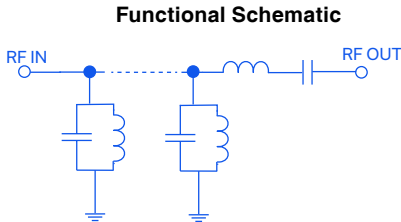
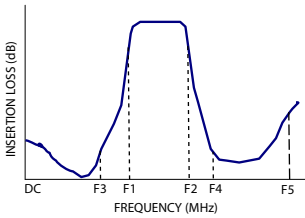
Features

- Good VSWR, 1.5:1 typ. @ passband
- Small size(0.126 x .063 x .037)
- Temperature stable
- LTCC construction

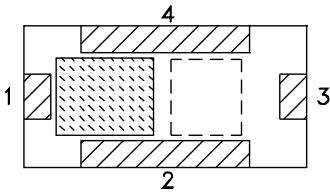
Applications

- Harmonic rejection
- Transmitters / Receivers

Specification Definition



Top View



Pad Connections

Input	1
Output	3
Ground	2,4

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

Parameter	F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center Frequency	—	—	1860	—	MHz
	Insertion Loss	F1 - F2	—	2.0	3.5	dB
	VSWR	F1 - F2	1580 - 2200	—	1.5	2.5
Stop Band, Lower	Insertion Loss	DC - F3	—	20	—	dB
	VSWR	DC - F3	1300	—	20	:1
Stop Band, Upper	Insertion Loss	F4 - F5	—	20	—	dB
	VSWR	F4 - F5	2600 - 4800	—	15	:1

1. Measured on Mini-Circuits Characterization Test Board TB-824+.

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.

Maximum Ratings

Operating Temperature	-55°C to +100°C
Storage Temperature	-55°C to +100°C
RF Power Input*	2.5W at 25°C

*Passband rating, derate linearly to 0.7W at 100°C ambient
Permanent damage may occur if any of these limits are exceeded.

