# Ceramic Bandpass Filter 50Ω 1400 to 2320 MHz

# BFCN-1801+

## **The Big Deal**

- Small size 3.2mm x 1.6mm
- Pass band (1400-2320 MHz)
- High rejection over wide band



### **Product Overview**

The BFCN-1801+ LTCC Band Pass Filter achieves a miniature size and high repeatability of performance. Wrap-around terminations minimize variations in performance due to parasitics. Covering 1400 to 2320 MHz, these units offer excellent rejection over a wide 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.				
Wide stopband	No regrowth at 2nd and 3rd harmonics permits filter to be used in presence of wideband undesired signals.				
LTCC construction	Provides a rugged package that is well suited for tough environments including high humidity and high temperature extremes.				

# Ceramic Bandpass Filter

### 50Ω

### 1400 to 2320 MHz

#### Features

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

### **Maximum Ratings**

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

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

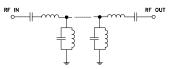


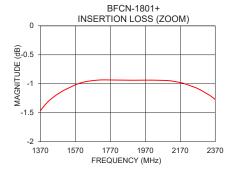
# Bottom View

### Pad Connections

Input	1
Output	3
Ground	2

### **Functional Schematic**





### Applications

- Harmonic Rejection
- Transmitters / Receivers

# BFCN-1801+



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

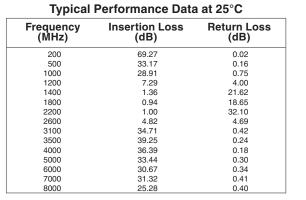
> Available Tape and Reel at no extra cost
>
>
>  Reel Size
>  Devices/Reel
>
>
>  7"
>  20, 50, 100, 200, 500, 1000, 3000

### Electrical Specifications<sup>1,2</sup> at 25°C

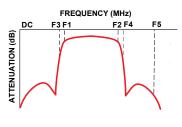
Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Center Frequency	-			1802		MHz
Pass Band	Insertion Loss	F1-F2	1400-2320	_	1.5	3.0	dB
	Return Loss	F1-F2	1400-2320	_	17	_	dB
Stop Band, Lower	Insertion Loss	DC-F3	DC-1000	20	25	_	dB
Stop Band, Upper	Insertion Loss	F4-F5	3110-6700	20	33	_	dB
		F5-F6	6700-10000	15	24	-	

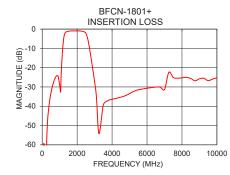
1. Measured on Mini-Circuits Characterization Test Board TB-812+.

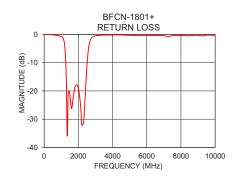
This filter is not intended for use as a DC Blocking circuit element. In Application where DC voltage is present at either input or output ports, blocking capacitors are required at the corresponding RF port.



### **Specification Definition**

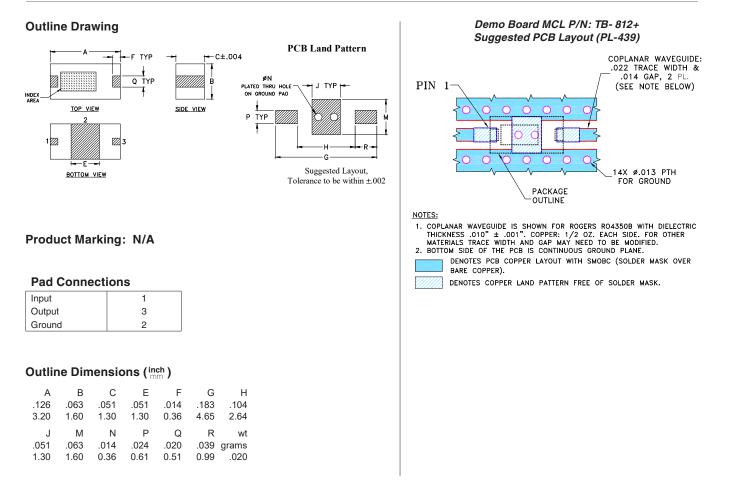






## **Bandpass Filter**

## **BFCN-1801+**



#### **Additional Notes**

- 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-Circuits standard 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-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp