Ceramic **Bandpass Filter** 50Ω 1950 to 3190 MHz

BFCN-2491+

The Big Deal

- Small size 3.2mm x 1.6mm
- Pass band (1950 to 3190 MHz)
- High rejection in upper stopband



Product Overview

The BFCN-2491+ LTCC Band Pass Filter achieves a miniature size and high repeatability of performance. Wrap-around terminations minimize variations in performance due to parasitics. Covering 1950 to 3190 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.					
Wide stopband	No regrowth out to 3 rd harmonic permits filter to be used in presence of wideband interfering 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

1950 to 3190 MHz

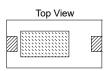
Features

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

Maximum Ratings

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

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

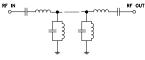


Bottom View 1 ⊠3

Pad Connections

Input	1
Output	3
Ground	2

Functional Schematic





- Harmonic Rejection
- Transmitters / Receivers

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

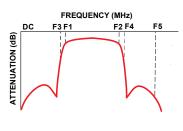
Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
Center Frequency		_			2491		MHz
Pass Band	Insertion Loss	F1-F2	1950-3190	_	1.2	3.0	dB
	Return Loss	F1-F2	1950-3190	—	15	-	dB
Stop Band, Lower	Insertion Loss	DC-F3	DC-1440	20	22	_	dB
Stop Band, Upper	Insertion Loss	F4-F5	4500-10000	20	29	—	dB

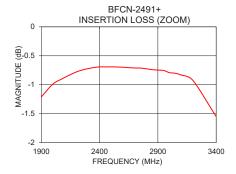
1. Measured on Mini-Circuits Characterization Test Board TB-812+.

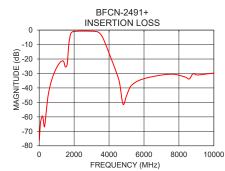
2. This filter is not intended for use as a DC Blocking circuit element. In Application where DC voltage is present at either input or output ports, blocking capacitors are required at the corresponding RF port.

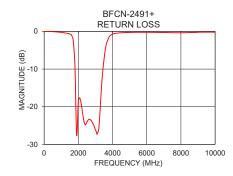
Typical Performance Data at 25°C Frequency (MHz) Insertion Loss **Return Loss** (dB) (dB) 500 -46.14 -0.06 1000 -25.95 -0.26 1400 -21 64 -0.56 1700 -9.28 -2.41 1800 -2.67 -9.20 2200 -0.78 -20.19 2600 -0.70 -23.38 3200 -0.92 -25.70 3400 -1.55 -11.95 3600 -4 30 -4 19 4200 -0.49 -22.20 4600 -36.37 -0.34 7000 -31.12 -0.29 8600 -33.77-0.2910000 -29.70 -0.21

Specification Definition











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

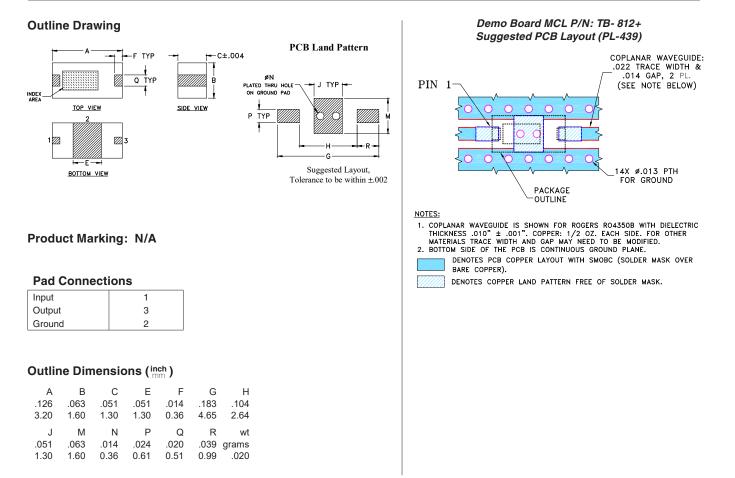




+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Bandpass Filter

BFCN-2491+



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

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