Ceramic

Bandpass Filter

BFCV-492+

50Ω 4800 to 5000 MHz

Generic photo used for illustration purposes only

CASE STYLE: JV1210C-5-S

+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, 2000

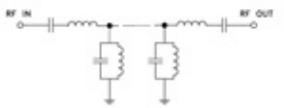
Features

- Small size
- (0.126"x0.098"x0.039")
- Temperature stable
- Hermetically sealed

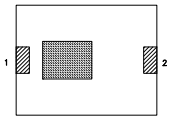
Applications

- 5G Telecomunications
- Cellular

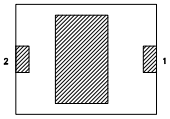
Simplified Schematic



Top View



Bottom View



Pad Connections

Input	1
Output	2
Ground	3

Electrical Specifications at 25°C

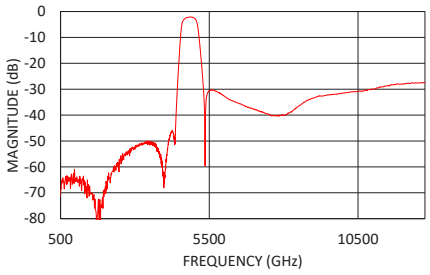
Parameter		F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center Freq.				4900		GHz
Pass Band	Insertion Loss	F1-F2	4800-5000		1.8	3	dB
Pass Band	Return Loss		4800-5000		14		dB
Stop Band, Lower	**Insertion Loss**		DC-2000	40			dB
Stop Band, Lower	**Insertion Loss**		2000-4330	25			dB
Stop Band, Lower	**Insertion Loss**		4330-4440	15			dB
Stop Band, Upper	**Insertion Loss**		5375-5900	12			dB
Stop Band, Upper	Insertion Loss		5900-8000	25			dB
Stop Band, Upper	Insertion Loss		8000-12750	10			dB

Maximum Ratings

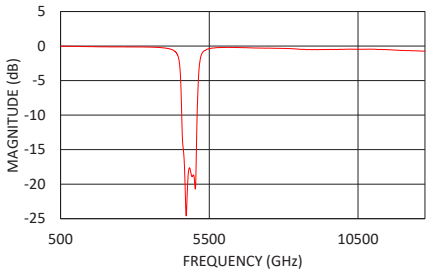
Operating Temperature	-55°C to +125°C
Storage Temperature[1]	-55°C to +125°C
RF Power Input[2]	0.5W max

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

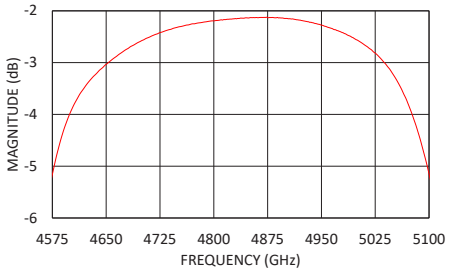
BFCV-492+
INSERTION LOSS



BFCV-492+
RETURN LOSS



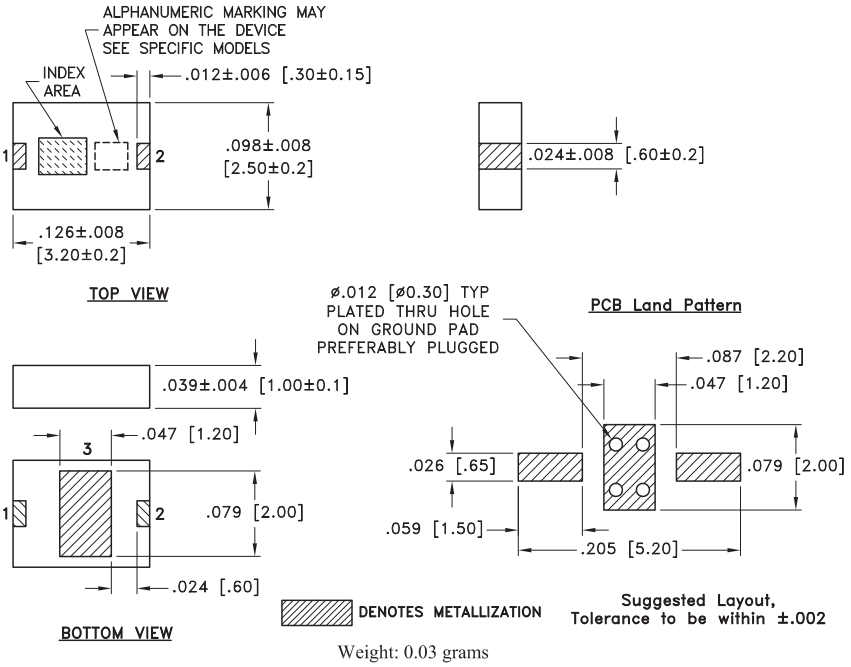
BFCV-492+
INSERTION LOSS (ZOOMED)



Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)
10.00	72.13	0.00
500.00	69.13	0.02
1000.00	64.41	0.05
2000.00	67.69	0.11
3000.00	53.22	0.13
4000.00	64.27	0.28
4440.00	26.83	1.36
4800.00	2.19	18.22
4900.00	2.15	18.72
5000.00	2.56	19.36
5500.00	30.63	0.37
7000.00	37.83	0.27
8000.00	39.97	0.34
10000.00	31.46	0.48
12750.00	27.43	0.73

Outline Drawing



Weight: 0.03 grams

Dimensions are in inches (mm). Tolerances: 2 Pl.± .01; 3 Pl. ± .005

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