

Bandpass Filter

BFCN-4440+

50Ω 4200 to 4700 MHz



CASE STYLE: FV1206

Maximum Ratings

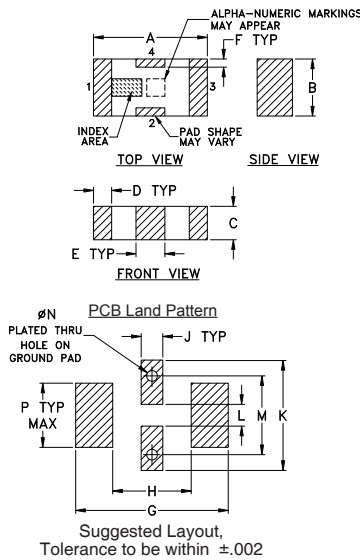
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	1.5W at 25°C

*Passband rating, derate linearly to 0.25W at 100°C ambient
Permanent damage may occur if any of these limits are exceeded.

Pin Connections

RF IN	1
RF OUT	3
GROUND	2,4

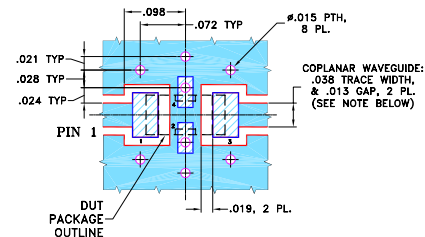
Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
.126	.063	.037	.020	.032	.009	.169
3.20	1.60	0.94	0.51	0.81	0.23	4.29
H	J	K	L	M	N	P
.087	.024	.122	.024	.087	.012	.071
2.21	0.61	3.10	0.61	2.21	0.30	1.80

Demo Board MCL P/N: TB-270 Suggested PCB Layout (PL-137)



Notes

- 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.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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Features

- Good VSWR, 1.2:1 Typ @ Passband
- Small size
- Temperature stable
- LTCC construction

Applications

- Harmonic Rejection
- Transmitters/Receivers

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

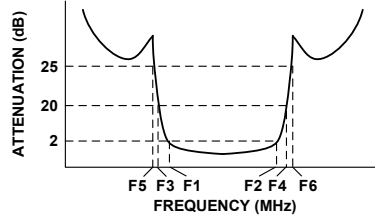
Bandpass Filter Electrical Specifications^{1,2} (T_{AMB} = 25°C)

CENTER FREQ. (MHz)	PASSBAND (MHz) (Loss < 2dB) F1 - F2	STOPBANDS (MHz)				VSWR (:1)	
		Loss > 20dB F3 F4		Loss 25dB Typ F5 F6		Passband Max.	Stopband Typ.
4440	4200 - 4700	2000	6750	2000	6650 - 12000	1.6	20

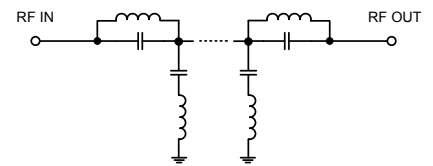
1. Measured on Mini-Circuits Characterization Test Board TB-270.

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 Frequency Response

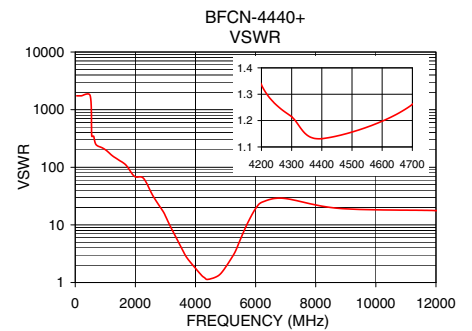
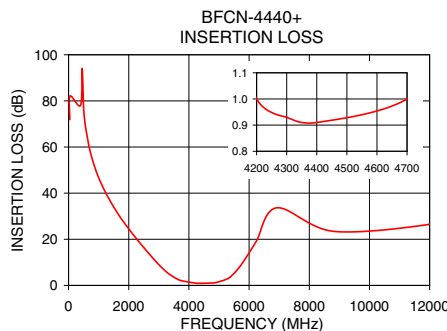


Functional Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	82.05	1737.18
500	76.80	1737.18
1000	46.74	868.59
2000	24.56	91.43
2300	19.60	51.10
2900	10.36	18.30
3300	5.35	6.78
3700	2.28	2.79
4200	1.00	1.34
4440	0.91	1.12
4700	1.00	1.26
5000	1.45	1.79
5400	3.99	4.26
5650	7.48	8.60
6000	14.07	19.11
6650	29.01	31.03
6750	31.37	29.96
9000	22.79	18.30
12000	26.72	17.22



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