

Bandpass Filter

BFCN-1560+

50Ω 1500 to 1620 MHz

Maximum Ratings

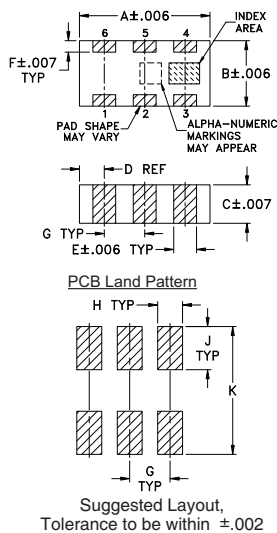
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	1.5W at 25°C

*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	2,4,5,6

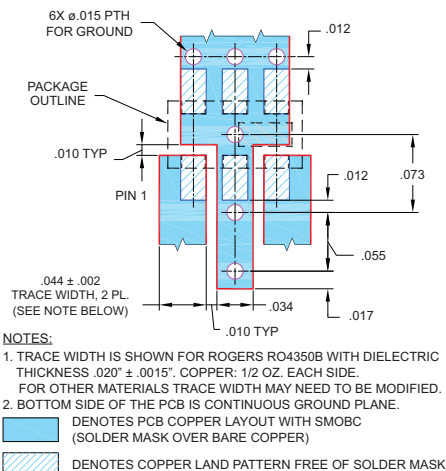
Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F
.126	.063	.035	.024	.022	.011
3.20	1.60	0.89	0.61	0.56	0.28
G	H	J	K	wt.	
.039	.024	.042	.123	grams	
0.99	0.61	1.07	3.12	.020	

Demo Board MCL P/N: TB-285 Suggested PCB Layout (PL-158)



NOTES:

- TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .020" ± .0015". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
- BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

- DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)
- DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

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.
- The parts covered by this specification document are subject to Mini-Circuit's 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-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp

Features

- Excellent VSWR, 1.1:1 typ @ passband
- Small size
- Temperature stable
- LTCC construction

Applications

- Harmonic rejection
- Transmitters / receivers



CASE STYLE: FV1206-1
PRICE: \$3.95 ea. QTY (20)

+RoHS Compliant

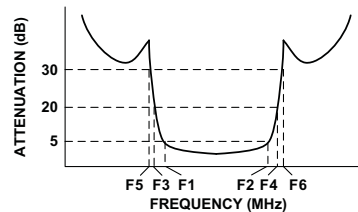
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Bandpass Filter Electrical Specifications¹ (T_{AMB} = 25°C)

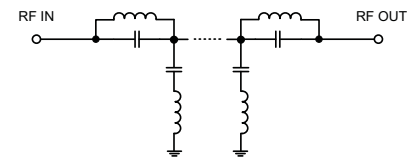
CENTER FREQ. (MHz)	PASSBAND (MHz) (Loss < 5dB) F1 - F2	STOPBANDS (MHz)				VSWR (:1)	
		Loss > 20dB		Loss 30dB Typ		Passband Max.	Stopband Typ.
1560	1500 - 1620	F3 1100	F4 2100	F5 1040	F6 2105 - 4200	1.7	20

1. Measured on Mini-Circuits Characterization Test Board TB-285.

Typical Frequency Response



Functional Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	68.59	193.02
200	62.54	91.43
500	49.47	52.65
1040	33.62	25.94
1100	28.46	22.87
1250	16.02	11.46
1340	8.35	4.69
1400	4.54	2.09
1500	2.69	1.07
1560	2.61	1.16
1620	2.81	1.41
1780	4.32	1.35
1850	8.81	2.82
1910	15.77	4.78
2000	27.69	6.56
2100	44.20	8.12
2105	44.37	8.27
3500	31.29	44.55
4200	38.45	35.46

