

Coaxial High Pass Filter

BHP-150+

50Ω 133 to 1000 MHz

Maximum Ratings

Operating Temperature -55°C to 100°C

Storage Temperature -55°C to 100°C

RF Power Input 0.5W max.

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

Features

- rugged shielded case
- other standard and custom BHP models available with wide selection of fco

Applications

- lab use
- transmitters/receivers
- radio communications



Generic photo used for illustration purposes only

CASE STYLE: FF55

Connectors	Model
BNC	BHP-150+

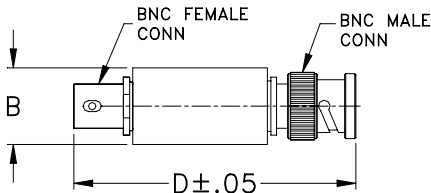
+RoHS Compliant

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

High Pass Filter Electrical Specifications

STOPBAND (MHz)		fco (MHz) Nom.	PASSBAND (MHz)	VSWR (:1)	
(loss > 40 dB)	(loss > 20 dB)	(loss 3 dB)	(loss < 1 dB)	Stopband Typ.	Passband Typ.
DC-70	70-95	120	133-1000	17	1.8

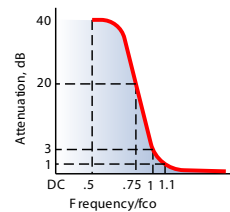
Outline Drawing



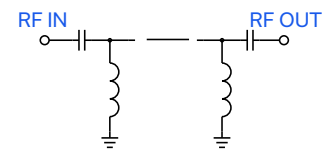
Outline Dimensions (inch/mm)

B	D	wt
.57	2.59	grams
14.47	65.79	40.0

typical frequency response

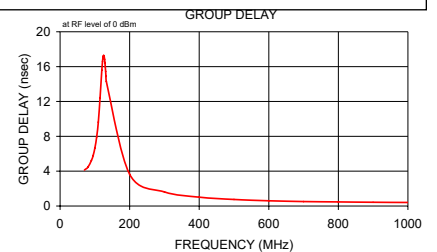
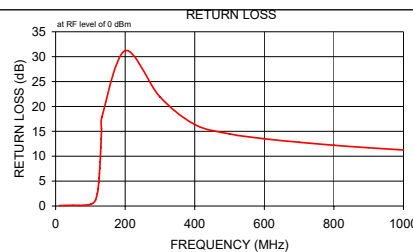
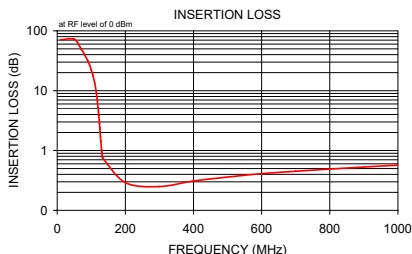


electrical schematic



Typical Performance Data

Frequency (MHz)	Insertion Loss (dB) \bar{x}	σ	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
10.00	71.12	2.99	0.09	70.00	4.13
50.00	72.50	1.13	0.15	80.00	4.46
70.00	50.20	0.59	0.13	90.00	5.24
80.00	40.39	0.58	0.15	95.00	5.80
90.00	31.22	0.67	0.22	100.00	6.67
95.00	26.73	0.74	0.27	105.00	7.91
100.00	22.30	0.81	0.33	110.00	9.63
105.00	17.87	0.89	0.47	115.00	12.43
110.00	13.42	0.97	0.71	120.00	15.59
115.00	9.04	1.02	1.23	122.00	16.58
120.00	5.14	0.91	2.53	123.00	16.93
122.00	3.87	0.80	3.46	124.00	17.17
124.00	2.81	0.65	4.77	125.00	17.28
125.00	2.37	0.57	5.58	126.00	17.26
126.00	2.00	0.49	6.52	127.00	17.11
127.00	1.69	0.41	7.60	128.00	16.84
128.00	1.43	0.33	8.81	129.00	16.45
130.00	1.05	0.21	11.74	130.00	15.98
131.00	0.93	0.15	13.50	131.00	15.45
132.00	0.82	0.11	15.52	132.00	14.88
133.00	0.76	0.07	17.84	133.00	14.29
200.00	0.29	0.02	31.20	200.00	3.64
300.00	0.25	0.02	21.92	300.00	1.62
400.00	0.31	0.02	16.38	400.00	1.02
500.00	0.36	0.01	14.49	500.00	0.75
600.00	0.41	0.01	13.50	600.00	0.60
700.00	0.45	0.01	12.80	700.00	0.51
800.00	0.49	0.01	12.20	800.00	0.47
900.00	0.53	0.00	11.70	900.00	0.43
1000.00	0.57	0.00	11.26	1000.00	0.41



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-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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Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)	FREQUENCY (MHz)	GROUP DELAY (nsec)
10.0	71.12	0.09	70.0	4.130
50.0	72.50	0.15	75.0	4.020
70.0	50.20	0.13	80.0	4.460
75.0	45.17	0.14	85.0	4.810
80.0	40.39	0.15	90.0	5.240
85.0	35.75	0.18	95.0	5.800
90.0	31.22	0.22	100.0	6.670
95.0	26.73	0.27	101.0	6.900
100.0	22.30	0.33	102.0	7.140
101.0	21.42	0.37	103.0	7.390
102.0	20.53	0.39	104.0	7.650
103.0	19.63	0.41	105.0	7.910
104.0	18.75	0.44	110.0	9.630
105.0	17.87	0.47	111.0	10.090
110.0	13.42	0.71	112.0	10.600
111.0	12.52	0.77	113.0	11.170
112.0	11.64	0.86	114.0	11.770
113.0	10.77	0.96	115.0	12.430
114.0	9.91	1.10	120.0	15.590
115.0	9.04	1.23	121.0	16.130
120.0	5.14	2.53	122.0	16.580
122.0	3.87	3.46	123.0	16.930
123.0	3.30	4.07	124.0	17.170
124.0	2.81	4.77	125.0	17.280
125.0	2.37	5.58	126.0	17.260
126.0	2.00	6.52	127.0	17.110
127.0	1.69	7.60	128.0	16.840
128.0	1.43	8.81	129.0	16.450
129.0	1.22	10.18	130.0	15.980
130.0	1.05	11.74	131.0	15.450
132.0	0.82	15.52	132.0	14.880
133.0	0.76	17.84	133.0	14.290
150.0	0.58	16.01	150.0	7.770
200.0	0.29	31.20	200.0	3.640
250.0	0.24	30.41	250.0	2.270
300.0	0.25	21.92	300.0	1.620
350.0	0.28	18.41	350.0	1.250
400.0	0.31	16.38	400.0	1.020
450.0	0.35	15.24	450.0	0.850
500.0	0.36	14.49	500.0	0.750
550.0	0.39	13.94	550.0	0.680
600.0	0.41	13.50	600.0	0.600
650.0	0.44	13.13	650.0	0.550
700.0	0.45	12.80	700.0	0.510
750.0	0.47	12.46	750.0	0.490
800.0	0.49	12.20	800.0	0.470
850.0	0.51	11.93	850.0	0.440
900.0	0.53	11.70	900.0	0.430
950.0	0.55	11.48	950.0	0.410
1000.0	0.57	11.26	1000.0	0.410
1500.0	0.78	9.75	1500.0	0.340
2000.0	0.89	9.30	2000.0	0.320

REV. X1
BHP-150+
070628
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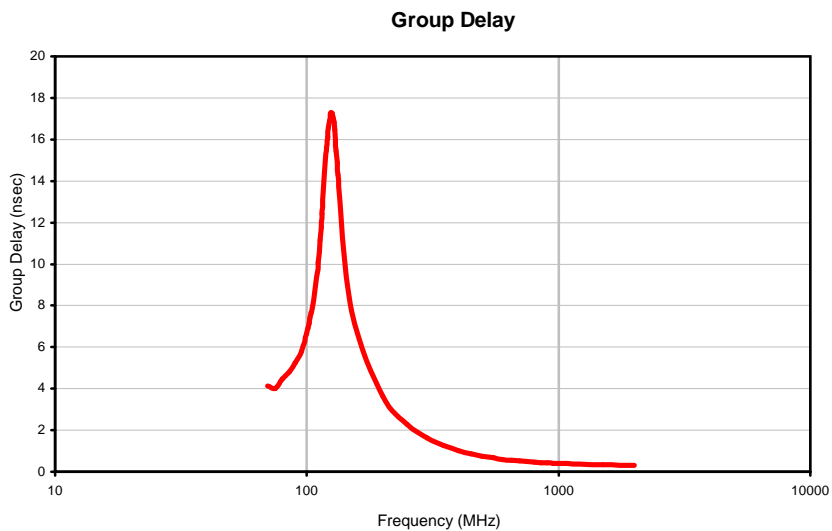
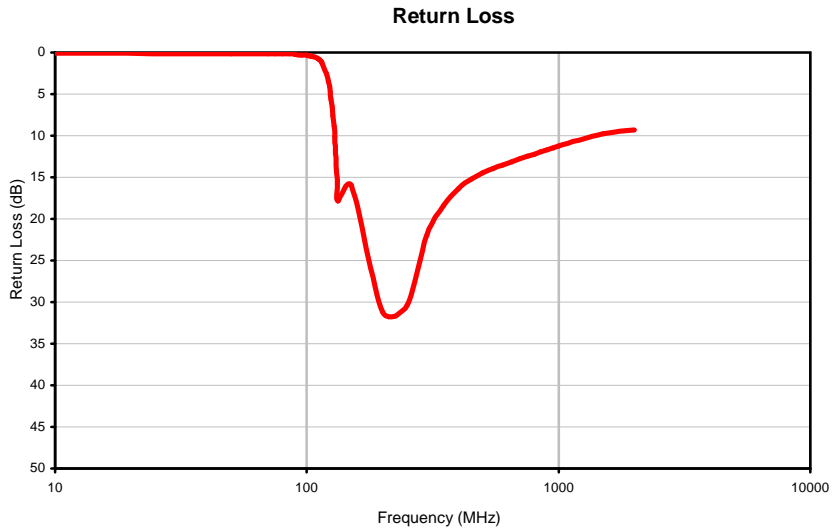
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Typical Performance Curves



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BHP-150+
070628
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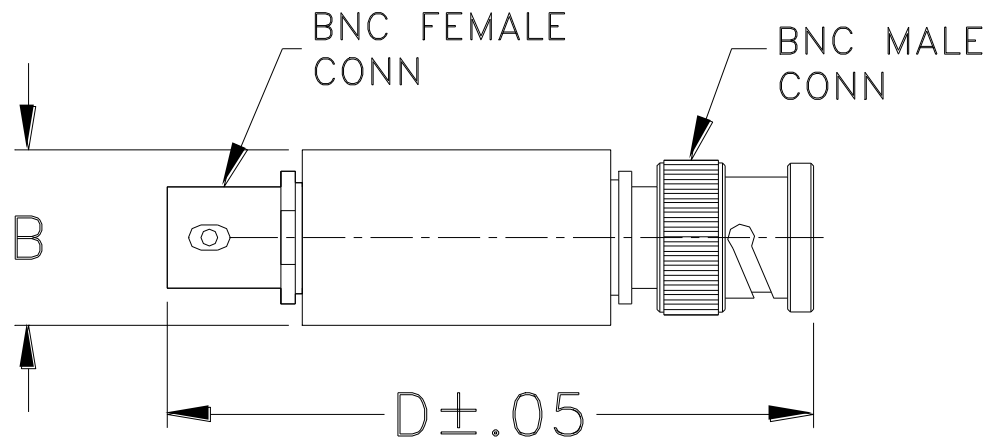
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Outline Dimensions



CASE #.	A	B	C	D	E	WT GRAMS
FF55	--	.57 (14.47)	--	2.59 (65.79)	--	40.0

Dimensions are in inches (mm). Tolerances: 2Pl. +.03/-.04; 3Pl. ± .015

Note:

1. Case material: Stainless steel.



All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

Specification	Test/Inspection Condition	Reference/Spec
Operating Temperature	-55° to 100°C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-55° to 100° C Ambient Environment	Individual Model Data Sheet
Barometric Pressure	100,000 Feet	MIL-STD-202, Method 105, Condition D
Humidity	90% RH, 65°C Units may require bake-out after humidity to restore full performance.	MIL-STD-202, Method 103
Thermal Shock	-65° to 125°C, 5 cycles	MIL-STD-202, Method 107, Condition B
Vibration (High Frequency)	20g peak, 10-2000 Hz, 12 times in each of three perpendicular directions (total 36)	MIL-STD-202, Method 204, Condition D
Mechanical Shock	100g, 6ms sawtooth, 3 shocks each direction 3 axes (total 18)	MIL-STD-202, Method 213, Condition I