

Coaxial High Pass Filter

50Ω 910 to 3000 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

BHP-900+
BHP-900



CASE STYLE: FF55

Connectors	Model	Price	Qty.
BNC	BHP-900(+)	\$36.95 ea.	(1-9)

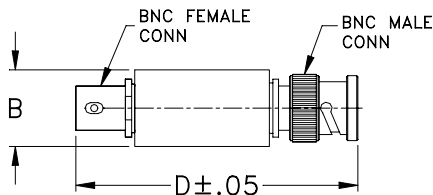
+RoHS Compliant

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

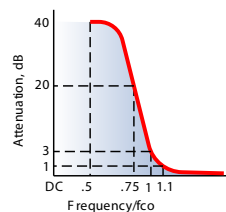
High Pass Filter Electrical Specifications

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-520	520-660	820	910-3000	17	1.8

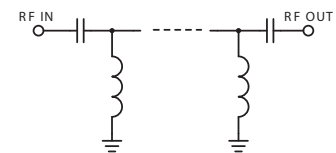
Outline Drawing



typical frequency response



electrical schematic

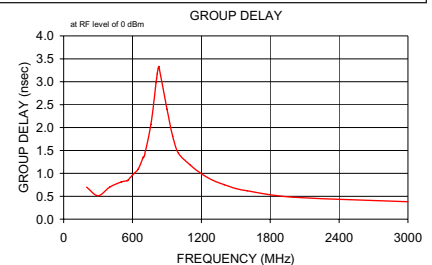
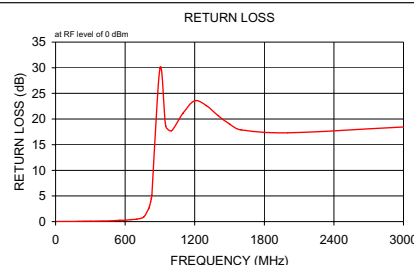


Outline Dimensions (inch mm)

B	D	wt
.54	2.59	grams
13.72	65.79	40.0

Typical Performance Data

Frequency (MHz)	Insertion Loss (dB) $\bar{x}$ σ	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
10.00	72.21 5.66	0.04	200.00	0.70
100.00	89.68 6.07	0.04	300.00	0.51
200.00	76.93 0.41	0.06	400.00	0.70
300.00	65.78 0.70	0.08	500.00	0.81
400.00	56.60 0.75	0.12	555.00	0.84
500.00	46.37 0.63	0.18	560.00	0.85
555.00	39.93 0.58	0.25	600.00	0.96
560.00	39.31 0.58	0.25	650.00	1.10
600.00	34.17 0.57	0.27	690.00	1.33
650.00	27.47 0.60	0.37	695.00	1.36
690.00	21.80 0.63	0.44	700.00	1.36
700.00	20.35 0.64	0.48	705.00	1.41
760.00	11.49 0.69	0.92	760.00	2.07
805.00	5.35 0.58	2.60	805.00	2.98
810.00	4.78 0.55	2.97	810.00	3.08
815.00	4.25 0.52	3.41	815.00	3.17
820.00	3.76 0.49	3.91	820.00	3.24
825.00	3.31 0.45	4.49	825.00	3.30
830.00	2.90 0.41	5.14	830.00	3.33
900.00	0.77 0.03	29.93	900.00	2.40
950.00	0.66 0.04	18.67	950.00	1.81
1000.00	0.60 0.04	17.72	1000.00	1.44
1100.00	0.50 0.02	21.19	1100.00	1.19
1200.00	0.45 0.01	23.54	1200.00	0.99
1300.00	0.44 0.01	22.60	1300.00	0.85
1400.00	0.43 0.02	20.69	1400.00	0.75
1500.00	0.44 0.02	19.04	1500.00	0.67
1600.00	0.46 0.02	17.89	1600.00	0.62
2000.00	0.50 0.02	17.31	2000.00	0.48
3000.00	0.56 0.01	18.45	3000.00	0.38



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-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



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REV. B
M108326
BHP-900
140807

Coaxial High Pass Filter

BHP-900+

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)	FREQUENCY (MHz)	GROUP DELAY (nsec)
10.0	72.21	0.04	200.0	0.700
100.0	89.68	0.04	300.0	0.510
200.0	76.93	0.06	400.0	0.700
300.0	65.78	0.08	500.0	0.810
400.0	56.60	0.12	555.0	0.840
500.0	46.37	0.18	560.0	0.850
560.0	39.31	0.25	600.0	0.960
600.0	34.17	0.27	650.0	1.100
650.0	27.47	0.37	690.0	1.330
690.0	21.80	0.44	695.0	1.360
700.0	20.35	0.48	700.0	1.360
705.0	19.64	0.44	705.0	1.410
710.0	18.91	0.47	710.0	1.460
760.0	11.49	0.92	760.0	2.070
765.0	10.76	1.02	765.0	2.150
770.0	10.03	1.12	770.0	2.250
775.0	9.31	1.25	775.0	2.340
805.0	5.35	2.60	805.0	2.980
810.0	4.78	2.97	810.0	3.080
815.0	4.25	3.41	815.0	3.170
820.0	3.76	3.91	820.0	3.240
825.0	3.31	4.49	825.0	3.300
830.0	2.90	5.14	830.0	3.330
835.0	2.54	5.89	835.0	3.350
840.0	2.23	6.73	840.0	3.340
845.0	1.96	7.67	845.0	3.310
850.0	1.72	8.71	850.0	3.260
855.0	1.53	9.88	855.0	3.190
860.0	1.36	11.17	860.0	3.110
865.0	1.23	12.62	865.0	3.030
870.0	1.11	14.24	870.0	2.940
875.0	1.02	16.08	875.0	2.840
880.0	0.95	18.18	880.0	2.750
885.0	0.89	20.65	885.0	2.650
900.0	0.77	29.93	900.0	2.400
950.0	0.66	18.67	950.0	1.810
1000.0	0.60	17.72	1000.0	1.440
1050.0	0.54	19.19	1050.0	1.330
1100.0	0.50	21.19	1100.0	1.190
1150.0	0.47	22.82	1150.0	1.080
1200.0	0.45	23.54	1200.0	0.990
1250.0	0.45	23.39	1250.0	0.910
1300.0	0.44	22.60	1300.0	0.850
1350.0	0.43	21.70	1350.0	0.790
1400.0	0.43	20.69	1400.0	0.750
1450.0	0.43	19.80	1450.0	0.700
1500.0	0.44	19.04	1500.0	0.670
1550.0	0.45	18.36	1550.0	0.640
1600.0	0.46	17.89	1600.0	0.620
2000.0	0.50	17.31	2000.0	0.480
2500.0	0.49	19.55	2500.0	0.410
3000.0	0.56	18.45	3000.0	0.380

REV. X1
BHP-900+
070628
Page 1 of 1



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS9100 CERTIFIED RoHS compliant

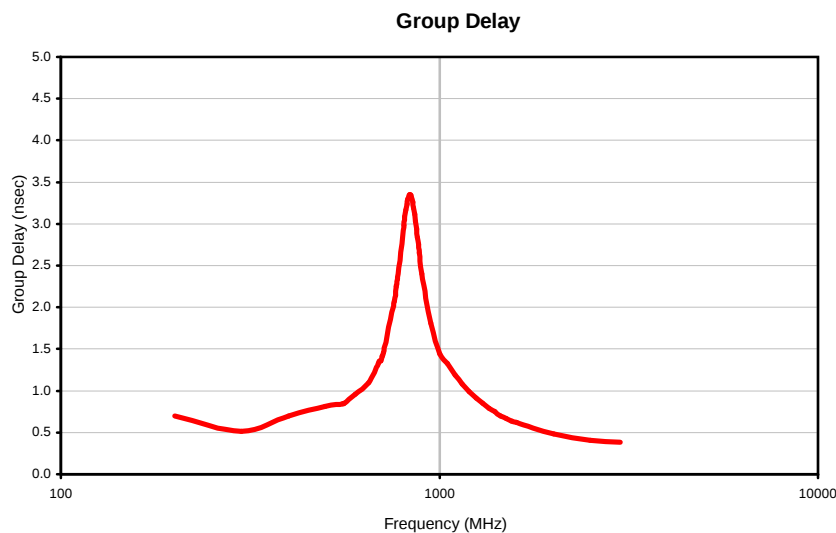
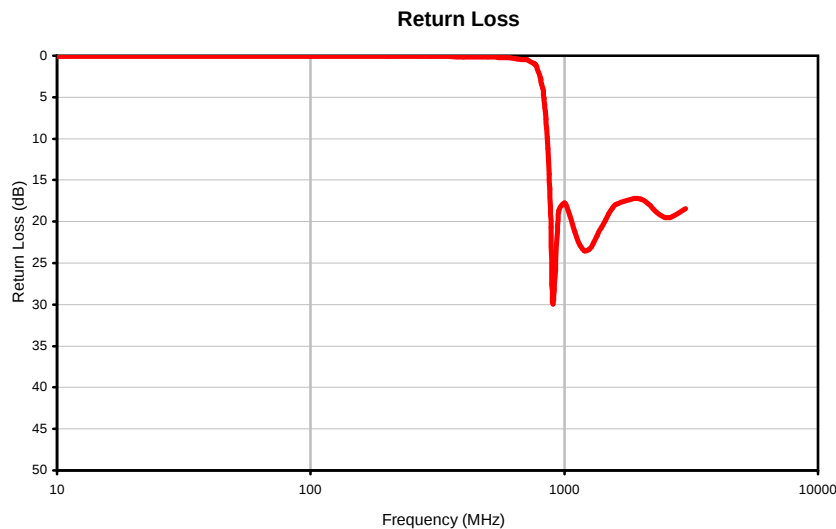
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Typical Performance Curves



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REV. X1
BHP-900+
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Page 1 of 1

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:

- 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