

# Coaxial High Pass Filter

## BHP-300+

50Ω 290 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



Generic photo used for illustration purposes only

CASE STYLE: FF55

Connectors	Model
BNC	BHP-300+

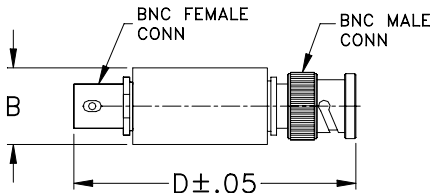
### +RoHS Compliant

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

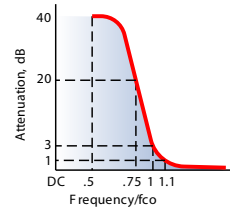
### High Pass Filter Electrical Specifications

STOPBAND (MHz)		fco (MHz) Nom.	PASSBAND (MHz)	VSWR (:1)	
(loss > 40 dB)	(loss > 20 dB)	(loss 3 dB)	(loss < 1.5 dB)	Stopband Typ.	Passband Typ.
DC-145	145-190	245	290-3000	17	1.7

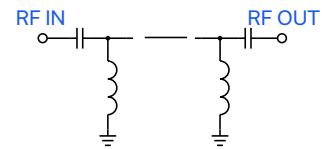
### Outline Drawing



### typical frequency response



### electrical schematic

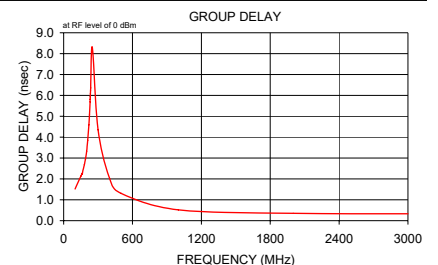
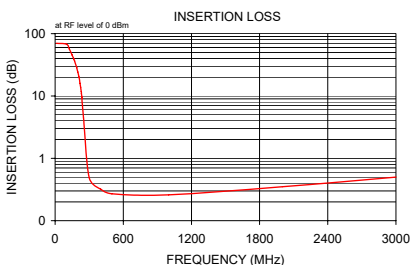


### Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)		Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
	$\bar{x}$	$\sigma$			
10.00	70.05	4.53	0.11	100.00	1.52
100.00	67.77	0.48	0.08	125.00	1.84
125.00	56.38	0.52	0.14	150.00	2.14
150.00	45.47	0.61	0.17	159.00	2.24
159.00	41.59	0.66	0.17	160.00	2.25
160.00	41.15	0.66	0.18	161.00	2.24
162.00	40.29	0.67	0.18	162.00	2.25
163.00	39.86	0.67	0.18	163.00	2.28
164.00	39.43	0.67	0.18	164.00	2.29
170.00	36.88	0.71	0.19	170.00	2.45
180.00	32.65	0.77	0.21	180.00	2.69
190.00	28.46	0.84	0.26	190.00	2.94
200.00	24.28	0.90	0.33	200.00	3.32
210.00	20.10	0.98	0.44	210.00	3.84
220.00	15.91	1.05	0.61	220.00	4.59
225.00	13.82	1.08	0.75	225.00	5.09
230.00	11.75	1.10	0.96	230.00	5.69
231.00	11.35	1.11	1.01	231.00	5.81
232.00	10.94	1.11	1.07	232.00	5.94
233.00	10.53	1.11	1.13	233.00	6.08
234.00	10.13	1.10	1.20	234.00	6.22
235.00	9.74	1.10	1.27	235.00	6.36
236.00	9.34	1.10	1.35	236.00	6.50
250.00	4.46	0.85	3.58	250.00	8.29
300.00	0.49	0.02	23.84	300.00	4.35
400.00	0.32	0.03	32.34	400.00	2.02
500.00	0.27	0.03	27.26	500.00	1.31
1000.00	0.26	0.01	23.11	1000.00	0.52
2000.00	0.35	0.01	34.07	2000.00	0.35
3000.00	0.50	0.01	22.01	3000.00	0.33

Outline Dimensions (inch/mm)

B	D	wt
.57	2.59	grams
14.47	65.79	40.0



### 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](http://www.minicircuits.com/MCLStore/terms.jsp)



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