

# Coaxial High Pass Filter

50Ω 1000 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-1000+  
BHP-1000



CASE STYLE: FF55

Connectors Model  
BNC BHP-1000(+)

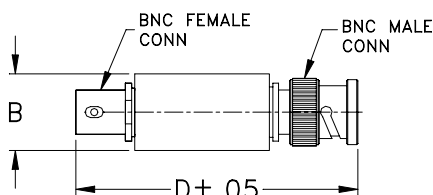
**+RoHS Compliant**

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-550         | 550-720        | 900            | 1000-3000      | 17            | 1.9           |

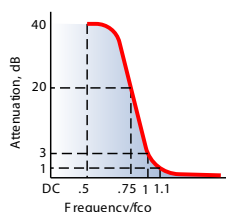
## Outline Drawing



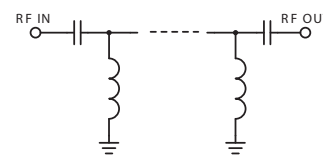
## Outline Dimensions (inch)

B D wt  
.54 2.59 grams  
13.72 65.79 40.0

## typical frequency response

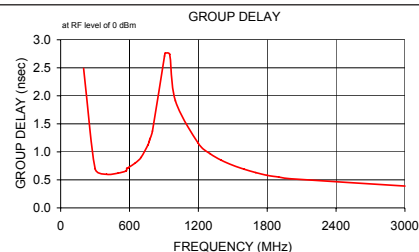
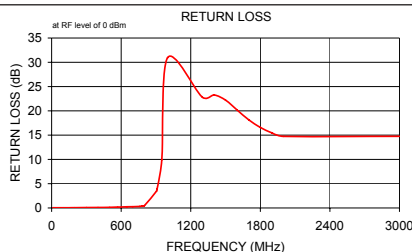
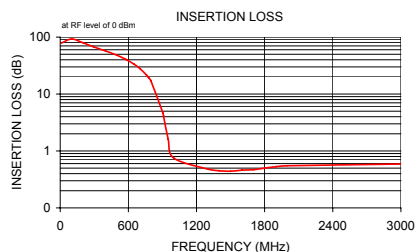


## electrical schematic



## Typical Performance Data

| Frequency (MHz) | Insertion Loss (dB) | Return Loss (dB) | Frequency (MHz) | Group Delay (nsec) |
|-----------------|---------------------|------------------|-----------------|--------------------|
| $\bar{x}$       | $\sigma$            |                  |                 |                    |
| 10.00           | 78.36               | 9.58             | 200.00          | 2.49               |
| 100.00          | 92.78               | 5.61             | 300.00          | 0.70               |
| 200.00          | 79.46               | 0.24             | 400.00          | 0.60               |
| 300.00          | 66.75               | 0.59             | 500.00          | 0.62               |
| 400.00          | 57.09               | 0.36             | 570.00          | 0.66               |
| 500.00          | 47.95               | 0.34             | 575.00          | 0.70               |
| 570.00          | 41.39               | 0.36             | 580.00          | 0.71               |
| 575.00          | 40.90               | 0.36             | 585.00          | 0.71               |
| 580.00          | 40.42               | 0.36             | 590.00          | 0.72               |
| 590.00          | 39.42               | 0.35             | 650.00          | 0.80               |
| 650.00          | 33.45               | 0.38             | 700.00          | 0.90               |
| 700.00          | 28.16               | 0.40             | 760.00          | 1.12               |
| 760.00          | 21.52               | 0.44             | 770.00          | 1.18               |
| 770.00          | 20.37               | 0.44             | 775.00          | 1.21               |
| 775.00          | 19.78               | 0.45             | 780.00          | 1.24               |
| 780.00          | 19.20               | 0.45             | 800.00          | 1.37               |
| 800.00          | 16.84               | 0.47             | 905.00          | 2.71               |
| 905.00          | 4.61                | 0.38             | 910.00          | 2.76               |
| 910.00          | 4.15                | 0.35             | 950.00          | 2.74               |
| 950.00          | 1.62                | 0.14             | 1000.00         | 1.91               |
| 1000.00         | 0.75                | 0.01             | 1200.00         | 1.15               |
| 1300.00         | 0.48                | 0.01             | 1300.00         | 0.97               |
| 1400.00         | 0.45                | 0.01             | 1400.00         | 0.85               |
| 1500.00         | 0.44                | 0.01             | 1500.00         | 0.76               |
| 1600.00         | 0.46                | 0.02             | 1600.00         | 0.69               |
| 1700.00         | 0.47                | 0.02             | 1700.00         | 0.63               |
| 1800.00         | 0.50                | 0.02             | 1800.00         | 0.58               |
| 1900.00         | 0.53                | 0.02             | 1900.00         | 0.55               |
| 2000.00         | 0.55                | 0.03             | 2000.00         | 0.52               |
| 3000.00         | 0.59                | 0.03             | 3000.00         | 0.39               |



## 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.

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