

# Coaxial High Pass Filter

50Ω 780 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-800+



CASE STYLE: FF55

Connectors Model  
BNC BHP-800+

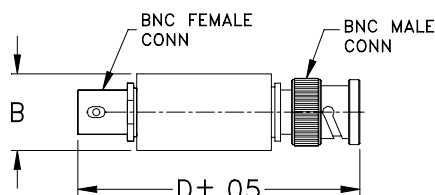
**+RoHS Compliant**

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 3 dB)    | (loss < 1 dB)  | Stopband Typ. Passband Typ. |
| DC-445         | 445-570        | 710            | 17 2.1                      |

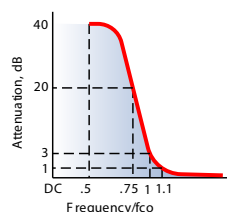
## Outline Drawing



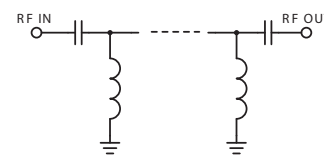
## Outline Dimensions (inch mm)

B D wt  
.54 2.59 grams  
13.72 65.79 40.0

## typical frequency response

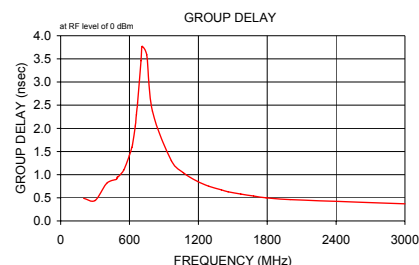
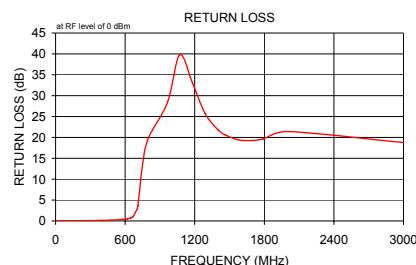
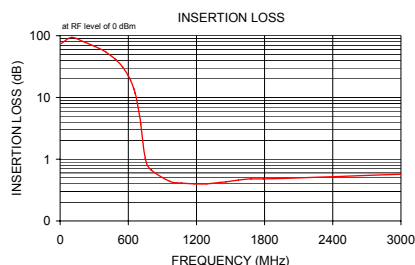


## electrical schematic



## Typical Performance Data

| Frequency (MHz) | Insertion Loss (dB) $\bar{x}$ $\sigma$ | Return Loss (dB) | Frequency (MHz) | Group Delay (nsec) |
|-----------------|----------------------------------------|------------------|-----------------|--------------------|
| 10.00           | 74.59 6.84                             | 0.07             | 200.00          | 0.49               |
| 100.00          | 94.26 7.80                             | 0.06             | 300.00          | 0.44               |
| 200.00          | 80.68 1.20                             | 0.07             | 400.00          | 0.81               |
| 300.00          | 68.07 0.23                             | 0.10             | 485.00          | 0.90               |
| 400.00          | 54.92 0.50                             | 0.14             | 490.00          | 0.92               |
| 485.00          | 41.80 0.71                             | 0.21             | 495.00          | 0.95               |
| 490.00          | 41.00 0.71                             | 0.21             | 500.00          | 0.95               |
| 495.00          | 40.19 0.72                             | 0.22             | 550.00          | 1.10               |
| 500.00          | 39.38 0.73                             | 0.22             | 600.00          | 1.42               |
| 550.00          | 31.17 0.81                             | 0.32             | 610.00          | 1.50               |
| 600.00          | 22.58 0.88                             | 0.41             | 620.00          | 1.59               |
| 620.00          | 19.06 0.91                             | 0.51             | 625.00          | 1.64               |
| 650.00          | 13.62 0.95                             | 0.77             | 650.00          | 2.05               |
| 660.00          | 11.79 0.95                             | 0.91             | 660.00          | 2.29               |
| 670.00          | 9.98 0.94                              | 1.13             | 670.00          | 2.55               |
| 700.00          | 5.03 0.77                              | 2.65             | 700.00          | 3.46               |
| 710.00          | 3.71 0.66                              | 3.62             | 710.00          | 3.77               |
| 750.00          | 1.03 0.15                              | 13.50            | 750.00          | 3.59               |
| 800.00          | 0.67 0.03                              | 19.87            | 800.00          | 2.37               |
| 965.00          | 0.44 0.01                              | 28.39            | 965.00          | 1.30               |
| 1070.00         | 0.41 0.00                              | 39.79            | 1070.00         | 1.04               |
| 1180.00         | 0.40 0.00                              | 33.07            | 1180.00         | 0.87               |
| 1290.00         | 0.40 0.01                              | 25.70            | 1290.00         | 0.75               |
| 1400.00         | 0.42 0.02                              | 21.82            | 1400.00         | 0.67               |
| 1460.00         | 0.43 0.02                              | 20.66            | 1460.00         | 0.63               |
| 1570.00         | 0.46 0.03                              | 19.47            | 1570.00         | 0.58               |
| 1680.00         | 0.48 0.03                              | 19.23            | 1680.00         | 0.54               |
| 1790.00         | 0.48 0.04                              | 19.63            | 1790.00         | 0.50               |
| 2000.00         | 0.49 0.04                              | 21.39            | 2000.00         | 0.46               |
| 3000.00         | 0.57 0.03                              | 18.79            | 3000.00         | 0.37               |



## 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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