

# High Pass Filter

50Ω 160 to 1200 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-175+



Generic photo used for illustration purposes only

CASE STYLE: FF55

| Connectors | Model    |
|------------|----------|
| BNC        | BHP-175+ |

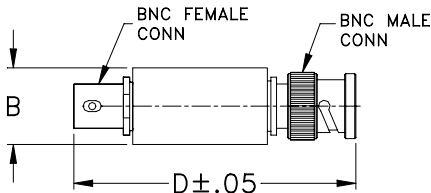
**+RoHS Compliant**

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-70          | 70-105         | 140            | 160-1200                    |
|                |                |                | 17 1.5                      |

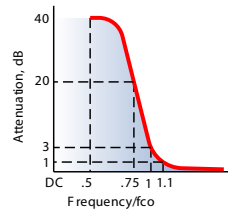
## Outline Drawing



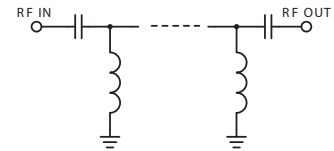
## Outline Dimensions (inch/mm)

| B     | D     | wt    |
|-------|-------|-------|
| .54   | 2.59  | grams |
| 13.72 | 65.79 | 40.0  |

## typical frequency response

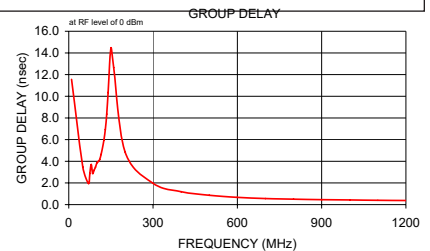
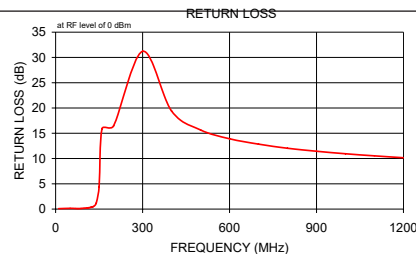
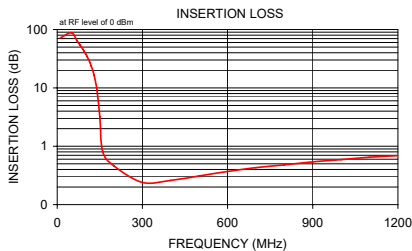


## electrical schematic



## Typical Performance Data

| Frequency (MHz) | Insertion Loss (dB) $\bar{x}$ $\sigma$ | Return Loss (dB) | Frequency (MHz) | Group Delay (nsec) |
|-----------------|----------------------------------------|------------------|-----------------|--------------------|
| 10.00           | 71.26 4.82                             | 0.08             | 10.00           | 11.56              |
| 50.00           | 88.13 7.75                             | 0.15             | 50.00           | 3.48               |
| 70.00           | 64.08 0.60                             | 0.11             | 70.00           | 1.95               |
| 75.00           | 59.06 0.35                             | 0.09             | 75.00           | 2.87               |
| 80.00           | 54.47 0.39                             | 0.09             | 80.00           | 3.70               |
| 85.00           | 50.30 0.30                             | 0.11             | 85.00           | 2.88               |
| 90.00           | 46.22 0.36                             | 0.12             | 90.00           | 3.16               |
| 95.00           | 42.26 0.37                             | 0.15             | 95.00           | 3.46               |
| 100.00          | 38.41 0.38                             | 0.16             | 100.00          | 3.85               |
| 105.00          | 34.67 0.41                             | 0.20             | 105.00          | 3.98               |
| 110.00          | 30.99 0.41                             | 0.23             | 110.00          | 4.15               |
| 115.00          | 27.32 0.43                             | 0.27             | 115.00          | 4.63               |
| 120.00          | 23.70 0.45                             | 0.33             | 120.00          | 5.22               |
| 125.00          | 20.06 0.46                             | 0.39             | 125.00          | 5.93               |
| 130.00          | 16.41 0.48                             | 0.50             | 130.00          | 6.93               |
| 135.00          | 12.76 0.49                             | 0.71             | 135.00          | 8.35               |
| 140.00          | 9.17 0.47                              | 1.17             | 140.00          | 10.35              |
| 150.00          | 3.19 0.29                              | 4.33             | 150.00          | 14.46              |
| 160.00          | 0.82 0.05                              | 15.90            | 160.00          | 12.65              |
| 200.00          | 0.46 0.04                              | 16.46            | 200.00          | 4.88               |
| 300.00          | 0.24 0.01                              | 31.22            | 300.00          | 1.97               |
| 400.00          | 0.26 0.01                              | 19.40            | 400.00          | 1.19               |
| 500.00          | 0.31 0.01                              | 15.65            | 500.00          | 0.86               |
| 600.00          | 0.37 0.01                              | 13.91            | 600.00          | 0.67               |
| 700.00          | 0.43 0.01                              | 12.85            | 700.00          | 0.56               |
| 800.00          | 0.48 0.01                              | 12.04            | 800.00          | 0.50               |
| 900.00          | 0.54 0.01                              | 11.44            | 900.00          | 0.46               |
| 1000.00         | 0.59 0.01                              | 10.95            | 1000.00         | 0.43               |
| 1100.00         | 0.65 0.01                              | 10.53            | 1100.00         | 0.40               |
| 1200.00         | 0.69 0.02                              | 10.16            | 1200.00         | 0.38               |



## Notes

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