

# Coaxial High Pass Filter

BHP-25+

50Ω 27.5 to 800 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



|                  |         |             |       |
|------------------|---------|-------------|-------|
| CASE STYLE: FF55 |         |             |       |
| Connectors       | Model   | Price       | Qty.  |
| BNC              | BHP-25+ | \$38.95 ea. | (1-9) |

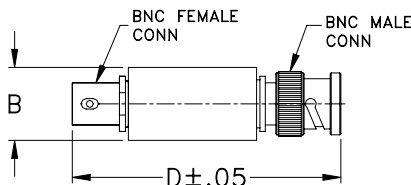
**+ RoHS compliant in accordance with EU Directive (2002/95/EC)**

The +Suffix has been added in order to identify 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) DC-13 | (loss > 20 dB) 13-19 | (loss < 1 dB) 27.5-800 | Stopband Typ. 18<br>Passband Typ. 1.7 |

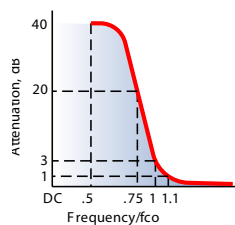
## Outline Drawing



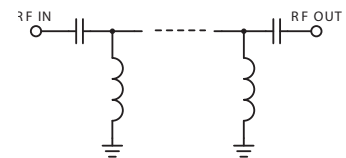
## Outline Dimensions (inch/mm)

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

## typical frequency response

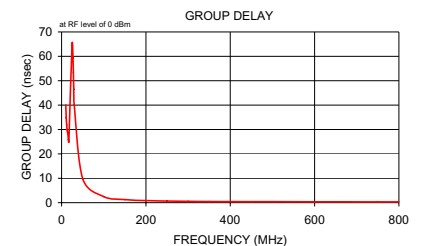
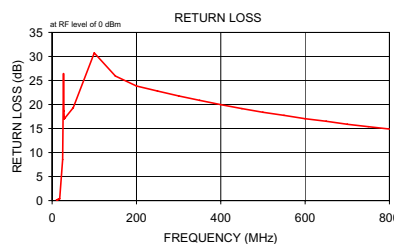
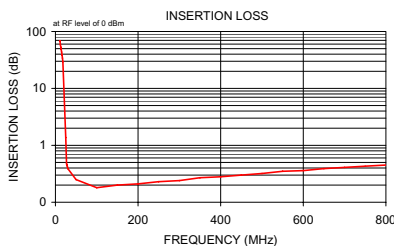


## electrical schematic



## Typical Performance Data

| Frequency (MHz) | Insertion Loss (dB) $\bar{x}$ | σ    | Return Loss (dB) | Frequency (MHz) | Group Delay (nsec) |
|-----------------|-------------------------------|------|------------------|-----------------|--------------------|
| 10.00           | 67.19                         | 3.53 | 0.16             | 10.00           | 40.11              |
| 11.00           | 68.52                         | 6.60 | 0.15             | 11.00           | 34.82              |
| 12.00           | 58.67                         | 1.74 | 0.11             | 12.00           | 31.93              |
| 13.00           | 53.20                         | 1.29 | 0.20             | 13.00           | 29.96              |
| 14.00           | 48.60                         | 0.72 | 0.20             | 14.00           | 28.87              |
| 15.00           | 43.62                         | 0.76 | 0.33             | 15.00           | 28.34              |
| 16.00           | 38.71                         | 0.65 | 0.34             | 16.00           | 25.81              |
| 17.00           | 34.04                         | 0.72 | 0.29             | 17.00           | 24.89              |
| 18.00           | 29.51                         | 0.70 | 0.38             | 18.00           | 28.84              |
| 25.00           | 1.37                          | 0.11 | 8.53             | 25.00           | 65.12              |
| 27.00           | 0.47                          | 0.03 | 26.43            | 27.00           | 59.20              |
| 28.00           | 0.45                          | 0.04 | 18.63            | 28.00           | 53.28              |
| 29.00           | 0.42                          | 0.06 | 17.01            | 29.00           | 46.47              |
| 30.00           | 0.39                          | 0.06 | 17.14            | 30.00           | 40.06              |
| 50.00           | 0.25                          | 0.01 | 19.33            | 50.00           | 9.87               |
| 100.00          | 0.18                          | 0.00 | 30.73            | 100.00          | 2.50               |
| 150.00          | 0.20                          | 0.00 | 25.92            | 150.00          | 1.26               |
| 200.00          | 0.21                          | 0.00 | 23.84            | 200.00          | 0.85               |
| 250.00          | 0.23                          | 0.00 | 22.80            | 250.00          | 0.65               |
| 300.00          | 0.24                          | 0.00 | 21.78            | 300.00          | 0.55               |
| 350.00          | 0.27                          | 0.00 | 20.86            | 350.00          | 0.48               |
| 400.00          | 0.28                          | 0.00 | 19.97            | 400.00          | 0.44               |
| 450.00          | 0.30                          | 0.00 | 19.15            | 450.00          | 0.41               |
| 500.00          | 0.32                          | 0.00 | 18.38            | 500.00          | 0.40               |
| 550.00          | 0.35                          | 0.00 | 17.74            | 550.00          | 0.38               |
| 600.00          | 0.36                          | 0.00 | 17.04            | 600.00          | 0.37               |
| 650.00          | 0.39                          | 0.01 | 16.51            | 650.00          | 0.35               |
| 700.00          | 0.41                          | 0.01 | 15.88            | 700.00          | 0.34               |
| 750.00          | 0.43                          | 0.01 | 15.38            | 750.00          | 0.34               |
| 800.00          | 0.45                          | 0.01 | 14.89            | 800.00          | 0.34               |



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ISO 9001 ISO 14001 AS 9100 CERTIFIED

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