

# Coaxial High Pass Filter

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 NHP models available with wide selection of fco

## Applications

- lab use
- transmitters/receivers
- radio communications

NHP-25+  
NHP-25



CASE STYLE: FF57

| Connectors | Model     | Price       | Qty.  |
|------------|-----------|-------------|-------|
| N-Type     | NHP-25(+) | \$41.95 ea. | (1-9) |

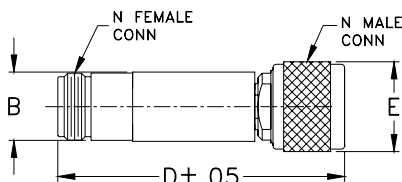
**+ RoHS compliant in accordance with EU Directive (2002/95/EC)**

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

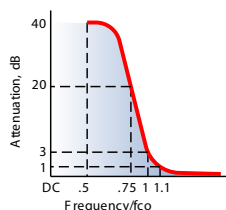
## High Pass Filter Electrical Specifications

| STOPBAND (MHz) | fco (MHz) Nom. | PASSBAND (MHz) | VSWR (:1)     |
|----------------|----------------|----------------|---------------|
| (loss > 40 dB) | (loss > 20 dB) | (loss < 3 dB)  | (loss < 1 dB) |
| DC-13          | 13-19          | 25             | 27.5-800      |
|                |                |                | 18            |
|                |                |                | 1.7           |

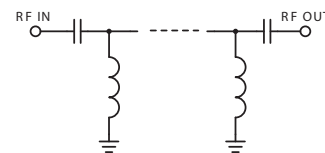
## Outline Drawing



## typical frequency response



## electrical schematic

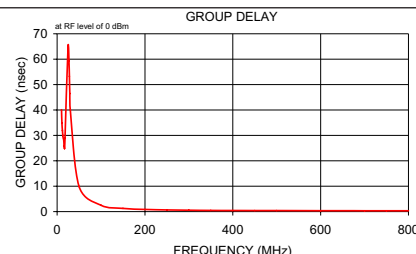
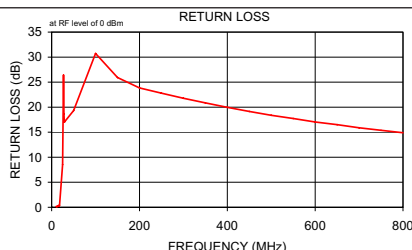
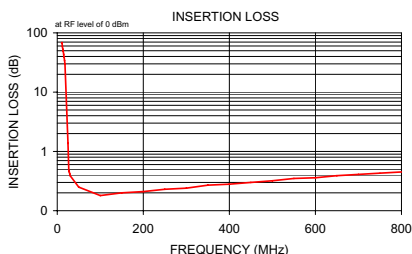


## Typical Performance Data

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

## Outline Dimensions (inch mm)

| B     | D     | E     | wt    |
|-------|-------|-------|-------|
| .67   | 2.90  | .82   | grams |
| 17.02 | 73.66 | 20.83 | 90.0  |



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