

Coaxial High Pass Filter

NHP-175+ NHP-175

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 NHP models available with wide selection of fco

Applications

- lab use
- transmitters/receivers
- radio communications



CASE STYLE: FF57

| Connectors | Model | Price | Qty. |
|------------|------------|-------------|-------|
| N-Type | NHP-175(+) | \$39.95 ea. | (1-9) |

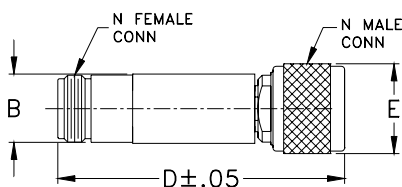
+ RoHS compliant in accordance with EU Directive (2002/95/EC)

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) | Stopband Typ. | Passband Typ. |
| DC-70 | 70-105 | 140 | 160-1200 | 17 | 1.5 |

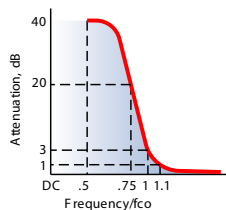
Outline Drawing



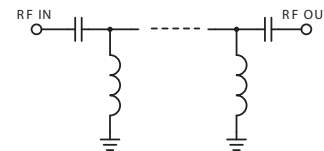
Outline Dimensions (inch/mm)

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

typical frequency response

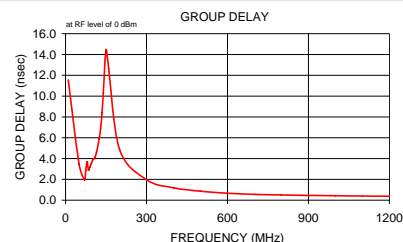
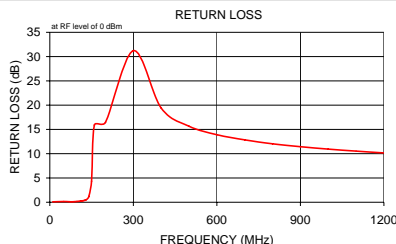
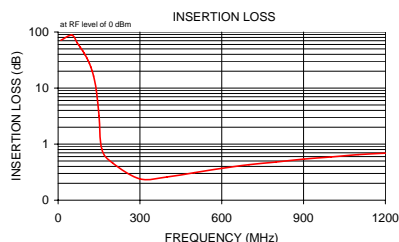


electrical schematic



Typical Performance Data

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



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ISO 9001 ISO 14001 AS 9100 CERTIFIED

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine



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IF/RF MICROWAVE COMPONENTS

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