

Coaxial

# Low Pass Filter

50Ω DC to 900 MHz

## Maximum Ratings

|                       |                |
|-----------------------|----------------|
| Operating Temperature | -55°C to 100°C |
| Storage Temperature   | -55°C to 100°C |
| RF Power Input        | 0.5W max.      |

## Features

- rugged shielded case
- other NLP models available with wide selection of cut-off frequencies

## Applications

- lab use
- test equipment
- video equipment

# NLP-1000+

# NLP-1000



CASE STYLE: FF57

| Connectors | Model       | Price       | Qty.  |
|------------|-------------|-------------|-------|
| N-Type     | NLP-1000(+) | \$35.95 ea. | (1-9) |

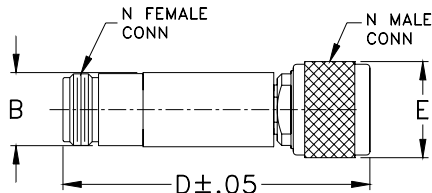
**+ RoHS compliant in accordance with EU Directive (2002/95/EC)**

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

## Low Pass Filter Electrical Specifications

| PASSBAND (MHz) | fco (MHz) Nom. | STOPBAND (MHz)                | VSWR (:1)                   |
|----------------|----------------|-------------------------------|-----------------------------|
| (loss < 1 dB)  | (loss 3 dB)    | (loss > 20 dB) (loss > 40 dB) | Passband Typ. Stopband Typ. |
| DC-900         | 990            | 1340-1750 1750-2000           | 1.7 18                      |

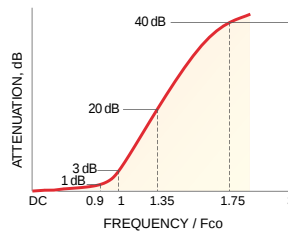
## Outline Drawing



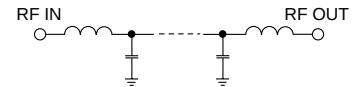
## Outline Dimensions (inch/mm)

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

## typical frequency response

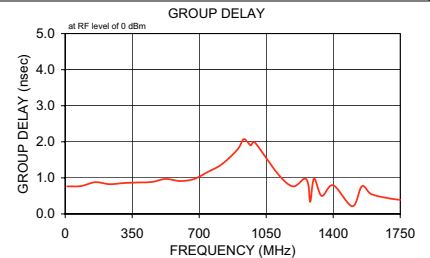
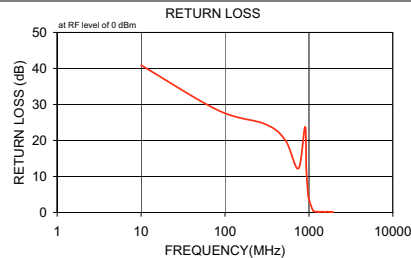


## electrical schematic



## Typical Performance Data

| Frequency (MHz) | Insertion Loss (dB) | Return Loss (dB) | Frequency (MHz) | Group Delay (nsec) |
|-----------------|---------------------|------------------|-----------------|--------------------|
|                 | $\bar{x}$ $\sigma$  |                  |                 |                    |
| 10.00           | 0.01 0.0            | 40.9             | 10.00           | 0.77               |
| 82.50           | 0.02 0.0            | 28.4             | 82.50           | 0.77               |
| 305.00          | 0.07 0.1            | 24.5             | 157.50          | 0.88               |
| 525.00          | 0.17 0.1            | 20.0             | 230.00          | 0.83               |
| 747.50          | 0.54 0.1            | 12.2             | 305.00          | 0.86               |
| 900.00          | 0.40 0.1            | 23.8             | 377.50          | 0.87               |
| 930.00          | 0.75 0.1            | 12.4             | 452.50          | 0.89               |
| 970.00          | 2.06 0.2            | 5.9              | 525.00          | 0.97               |
| 990.00          | 3.10 0.2            | 4.1              | 600.00          | 0.91               |
| 1115.00         | 12.75 0.5           | 0.6              | 672.50          | 0.97               |
| 1250.00         | 23.28 0.7           | 0.2              | 747.50          | 1.17               |
| 1270.00         | 24.76 0.8           | 0.2              | 820.00          | 1.39               |
| 1280.00         | 25.53 0.8           | 0.2              | 900.00          | 1.79               |
| 1300.00         | 27.07 0.9           | 0.2              | 930.00          | 2.07               |
| 1340.00         | 30.19 1.0           | 0.2              | 950.00          | 2.01               |
| 1400.00         | 34.90 1.2           | 0.2              | 970.00          | 1.90               |
| 1500.00         | 43.32 1.8           | 0.2              | 990.00          | 1.99               |
| 1550.00         | 48.04 2.6           | 0.1              | 1115.00         | 1.08               |
| 1600.00         | 53.09 3.9           | 0.2              | 1190.00         | 0.76               |
| 1700.00         | 61.90 8.3           | 0.2              | 1250.00         | 0.98               |
| 1750.00         | 58.54 3.6           | 0.1              | 1270.00         | 0.81               |
| 1760.06         | 58.62 6.4           | 0.1              | 1280.00         | 0.34               |
| 1790.00         | 57.18 2.8           | 0.1              | 1300.00         | 0.98               |
| 1800.00         | 56.81 1.9           | 0.1              | 1340.00         | 0.50               |
| 1820.00         | 55.81 3.2           | 0.1              | 1400.00         | 0.80               |
| 1850.00         | 54.77 2.3           | 0.1              | 1500.00         | 0.21               |
| 1860.00         | 53.85 1.3           | 0.1              | 1550.00         | 0.77               |
| 1880.00         | 53.19 1.8           | 0.1              | 1600.00         | 0.55               |
| 1900.05         | 52.56 1.6           | 0.1              | 1700.00         | 0.43               |
| 1950.00         | 50.28 1.1           | 0.1              | 1750.00         | 0.39               |



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