

Coaxial

# Low Pass Filter

50Ω DC to 11 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 NLP models available with wide selection of cut-off frequencies

## Applications

- lab use
- test equipment
- video equipment

# NLP-10.7+ NLP-10.7



CASE STYLE: FF57

| Connectors | Model       | Price       | Qty.  |
|------------|-------------|-------------|-------|
| N-Type     | NLP-10.7(+) | \$35.95 ea. | (1-9) |

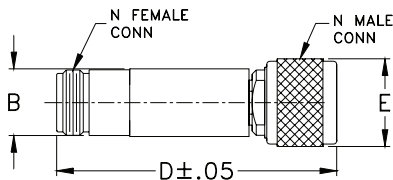
**+ RoHS compliant in accordance with EU Directive (2002/95/EC)**

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-11          | 14             | 19-24 24-200                  | 1.7 18                      |

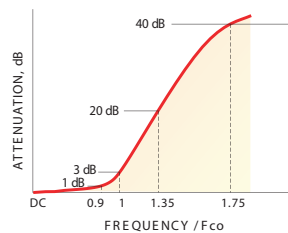
## Outline Drawing



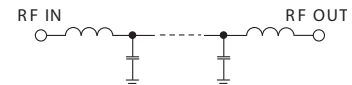
## Outline Dimensions (inch/mm)

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

## typical frequency response

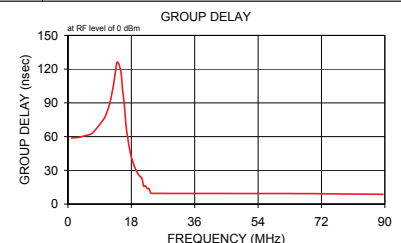
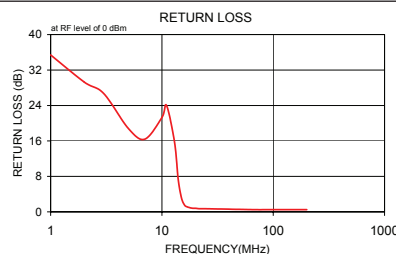


## electrical schematic



## Typical Performance Data

| Frequency (MHz) | Insertion Loss (dB) | Return Loss (dB) | Frequency (MHz) | Group Delay (nsec) |
|-----------------|---------------------|------------------|-----------------|--------------------|
|                 | $\bar{x}$ $\sigma$  |                  |                 |                    |
| 1.00            | 0.07 0.1            | 35.4             | 1.00            | 58.80              |
| 2.00            | 0.09 0.1            | 29.3             | 2.00            | 59.10              |
| 3.00            | 0.12 0.1            | 26.7             | 3.00            | 59.27              |
| 5.00            | 0.32 0.1            | 18.8             | 5.00            | 60.97              |
| 7.00            | 0.47 0.1            | 16.4             | 7.00            | 63.36              |
| 10.00           | 0.65 0.1            | 21.3             | 10.00           | 74.88              |
| 11.00           | 0.75 0.1            | 24.0             | 11.00           | 81.22              |
| 13.00           | 1.40 0.2            | 15.6             | 12.00           | 91.07              |
| 14.00           | 2.93 0.6            | 7.4              | 13.00           | 107.18             |
| 15.00           | 6.69 1.2            | 3.1              | 13.50           | 117.87             |
| 16.00           | 11.80 1.5           | 1.5              | 14.00           | 126.32             |
| 17.00           | 17.23 1.5           | 1.1              | 15.00           | 118.46             |
| 17.50           | 19.81 1.6           | 1.0              | 15.50           | 101.87             |
| 18.00           | 22.31 1.6           | 0.9              | 16.00           | 88.38              |
| 19.00           | 27.01 1.7           | 0.8              | 16.50           | 69.67              |
| 20.00           | 31.35 1.7           | 0.8              | 17.00           | 58.26              |
| 21.50           | 37.46 1.8           | 0.7              | 17.50           | 48.58              |
| 22.50           | 41.58 2.0           | 0.7              | 18.00           | 41.98              |
| 23.00           | 43.42 2.0           | 0.7              | 19.00           | 32.50              |
| 23.50           | 45.39 2.3           | 0.7              | 20.00           | 26.26              |
| 24.00           | 47.26 2.3           | 0.7              | 21.00           | 22.78              |
| 67.50           | 69.85 8.9           | 0.5              | 21.50           | 15.91              |
| 89.50           | 68.74 2.9           | 0.5              | 22.00           | 16.35              |
| 111.50          | 69.81 2.2           | 0.5              | 22.50           | 13.87              |
| 133.50          | 73.98 3.2           | 0.5              | 23.00           | 13.79              |
| 156.00          | 74.31 4.9           | 0.5              | 23.50           | 9.85               |
| 167.00          | 77.32 6.1           | 0.5              | 24.00           | 9.53               |
| 178.00          | 71.38 2.8           | 0.5              | 67.50           | 9.31               |
| 189.00          | 75.13 2.8           | 0.5              | 78.50           | 8.98               |
| 200.00          | 72.96 2.1           | 0.5              | 89.50           | 8.70               |



**Mini-Circuits®**  
ISO 9001 ISO 14001 AS 9100 CERTIFIED

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IF/RF MICROWAVE COMPONENTS

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