

Coaxial Low Pass Filter

NLP-21.4+

50Ω DC to 22 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



CASE STYLE: FF57

| | | | |
|------------|-----------|-------------|-------|
| Connectors | Model | Price | Qty. |
| N-Type | NLP-21.4+ | \$35.95 ea. | (1-9) |

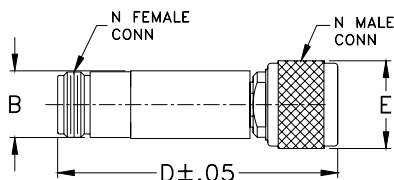
+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

Low Pass Filter Electrical Specifications

| PASSBAND (MHz) | fco (MHz) Nom. | STOPBAND (MHz) | | VSWR (:1) | |
|----------------|----------------|----------------|----------------|---------------|---------------|
| | | (loss > 20 dB) | (loss > 40 dB) | Passband Typ. | Stopband Typ. |
| DC-22 | 24.5 | 32-41 | 41-200 | 1.7 | 18 |

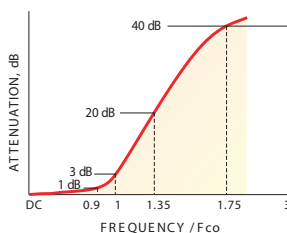
Outline Drawing



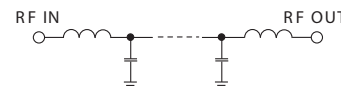
Outline Dimensions (inch/mm)

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

typical frequency response

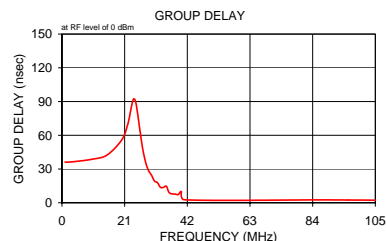
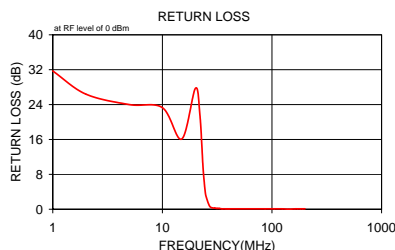


electrical schematic



Typical Performance Data

| Frequency (MHz) | Insertion Loss (dB) | | Return Loss (dB) | Frequency (MHz) | Group Delay (nsec) |
|-----------------|---------------------|----------|------------------|-----------------|--------------------|
| | \bar{x} | σ | | | |
| 1.00 | 0.10 | 0.1 | 31.7 | 1.00 | 36.16 |
| 2.00 | 0.12 | 0.0 | 26.4 | 2.00 | 36.11 |
| 5.00 | 0.21 | 0.1 | 24.0 | 5.00 | 36.80 |
| 10.00 | 0.29 | 0.1 | 23.3 | 10.00 | 38.69 |
| 15.00 | 0.45 | 0.1 | 16.1 | 15.00 | 42.25 |
| 20.00 | 0.45 | 0.1 | 27.7 | 20.00 | 55.73 |
| 22.00 | 0.60 | 0.1 | 21.6 | 22.00 | 69.40 |
| 23.50 | 1.46 | 0.4 | 9.6 | 23.00 | 81.70 |
| 24.50 | 3.45 | 1.0 | 4.4 | 23.50 | 88.29 |
| 25.00 | 4.95 | 1.2 | 3.0 | 24.00 | 92.34 |
| 27.00 | 12.37 | 1.5 | 0.7 | 24.50 | 91.46 |
| 29.00 | 19.53 | 1.4 | 0.3 | 25.00 | 85.66 |
| 30.00 | 22.77 | 1.4 | 0.3 | 26.00 | 66.76 |
| 31.00 | 25.77 | 1.3 | 0.2 | 27.00 | 48.88 |
| 32.00 | 28.62 | 1.3 | 0.2 | 28.00 | 36.30 |
| 33.00 | 31.31 | 1.3 | 0.2 | 29.00 | 28.75 |
| 35.00 | 36.30 | 1.2 | 0.1 | 30.00 | 24.49 |
| 38.00 | 42.86 | 1.3 | 0.1 | 31.00 | 19.40 |
| 39.00 | 45.08 | 1.1 | 0.1 | 32.00 | 17.88 |
| 40.00 | 46.77 | 1.0 | 0.1 | 33.00 | 13.73 |
| 41.00 | 48.73 | 1.0 | 0.1 | 34.00 | 13.70 |
| 86.50 | 76.16 | 2.0 | 0.1 | 35.00 | 14.63 |
| 105.00 | 77.54 | 4.3 | 0.1 | 36.00 | 8.86 |
| 124.00 | 75.42 | 0.6 | 0.1 | 38.00 | 7.64 |
| 143.00 | 75.51 | 1.8 | 0.0 | 39.00 | 7.39 |
| 162.00 | 74.57 | 3.5 | 0.1 | 40.00 | 9.97 |
| 171.50 | 75.79 | 4.4 | 0.1 | 41.00 | 2.67 |
| 181.00 | 81.15 | 8.2 | 0.1 | 86.50 | 2.56 |
| 190.50 | 76.97 | 3.2 | 0.1 | 96.00 | 2.44 |
| 200.00 | 72.23 | 2.4 | 0.1 | 105.00 | 2.28 |



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