*Coaxial*

# Low Pass Filter

## NLP-150+

50Ω DC to 140 MHz

*Generic photo used for illustration purposes only*

CASE STYLE: FF57

| Connectors | Model |
|---|---|
| **N-Type** | NLP-150+ |

***+RoHS Compliant***

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

### 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

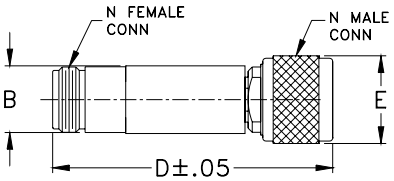
### Applications

- lab use
- test equipment
- video equipment

### Low Pass Filter Electrical Specifications

| PASSBAND (MHz) | fco (MHz) Nom. | STOPBAND (MHz) | | VSWR (:1) | |
|---|---|---|---|---|---|
| | | | | Passband Typ. | Stopband Typ. |
| (loss < 1 dB) | (loss 3 dB) | (loss > 20 dB) | (loss > 40 dB) | | |
| DC-140 | 155 | 210-300 | 300-600 | 1.7 | 18 |

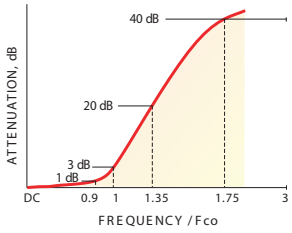
### Outline Drawing



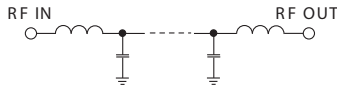

### Outline Dimensions (inch / mm)

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

### typical frequency response

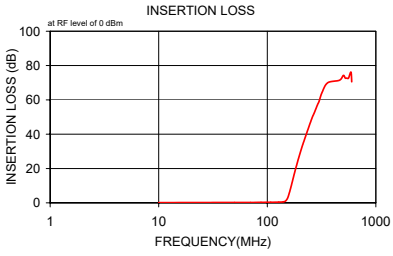


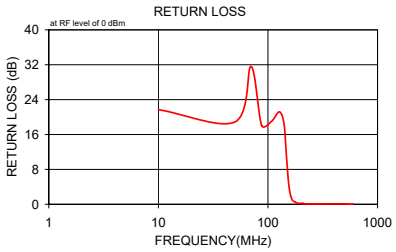

### electrical schematic

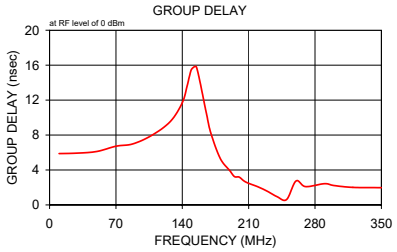



### Typical Performance Data

| Frequency (MHz) | Insertion Loss (dB) x̄ | Insertion Loss (dB) σ | Return Loss (dB) | Frequency (MHz) | Group Delay (nsec) |
|---|---|---|---|---|---|
| 10.00 | 0.12 | 0.1 | 21.7 | 10.00 | 5.875 |
| 50.00 | 0.20 | 0.0 | 18.9 | 30.00 | 5.932 |
| 70.00 | 0.19 | 0.1 | 31.6 | 50.00 | 6.124 |
| 87.50 | 0.30 | 0.1 | 18.1 | 70.00 | 6.723 |
| 107.50 | 0.34 | 0.1 | 19.0 | 87.50 | 6.973 |
| 127.50 | 0.43 | 0.1 | 21.2 | 107.50 | 7.940 |
| 140.00 | 0.59 | 0.1 | 18.5 | 127.50 | 9.564 |
| 147.50 | 1.11 | 0.1 | 11.0 | 140.00 | 11.710 |
| 155.00 | 3.27 | 0.2 | 4.3 | 145.00 | 13.582 |
| 165.00 | 9.15 | 0.4 | 1.2 | 147.50 | 14.703 |
| 180.00 | 18.50 | 0.6 | 0.4 | 150.00 | 15.571 |
| 195.03 | 26.35 | 0.7 | 0.2 | 155.00 | 15.775 |
| 200.03 | 28.70 | 0.7 | 0.2 | 165.00 | 10.701 |
| 205.00 | 30.89 | 0.7 | 0.2 | 170.00 | 8.263 |
| 210.03 | 33.01 | 0.8 | 0.2 | 180.00 | 5.337 |
| 220.04 | 36.90 | 0.8 | 0.1 | 190.00 | 3.934 |
| 240.04 | 43.83 | 0.9 | 0.1 | 195.00 | 3.242 |
| 260.05 | 49.92 | 1.3 | 0.1 | 200.00 | 3.185 |
| 270.05 | 52.20 | 1.9 | 0.1 | 205.00 | 2.751 |
| 290.06 | 57.13 | 1.7 | 0.1 | 210.00 | 2.474 |
| 300.00 | 59.12 | 2.5 | 0.1 | 220.00 | 2.061 |
| 320.00 | 64.42 | 3.7 | 0.1 | 230.00 | 1.548 |
| 360.00 | 69.97 | 6.8 | 0.1 | 240.00 | 0.945 |
| 462.50 | 71.43 | 5.2 | 0.1 | 250.00 | 0.617 |
| 502.50 | 74.26 | 2.1 | 0.1 | 260.00 | 2.736 |
| 522.50 | 72.73 | 2.6 | 0.1 | 270.00 | 2.100 |
| 540.00 | 72.69 | 4.1 | 0.1 | 290.00 | 2.428 |
| 560.00 | 72.65 | 5.6 | 0.0 | 300.00 | 2.217 |
| 590.00 | 76.20 | 9.3 | 0.1 | 320.00 | 2.006 |
| 600.00 | 70.55 | 3.8 | 0.1 | 350.00 | 1.977 |




Notes

**A.** Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.

**B.** Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.

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