

Coaxial Low Pass Filter

NLP-800+

50Ω DC to 720 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



Generic photo used for illustration purposes only

CASE STYLE: FF57
Connectors Model
N-Type NLP-800+

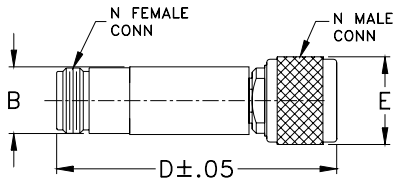
+RoHS Compliant

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 > 20 dB) | (loss > 40 dB) | Passband Typ. | Stopband Typ. |
| DC-720 | 800 | 1080-1400 | 1400-2000 | 1.7 | 18 |

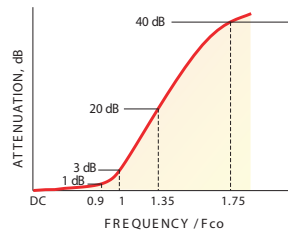
Outline Drawing



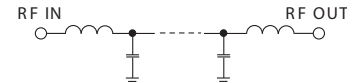
Outline Dimensions (inch/mm)

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

typical frequency response

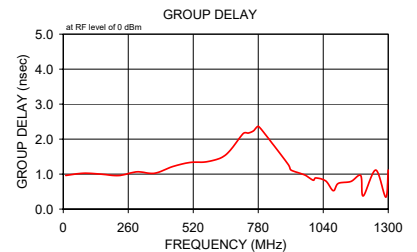
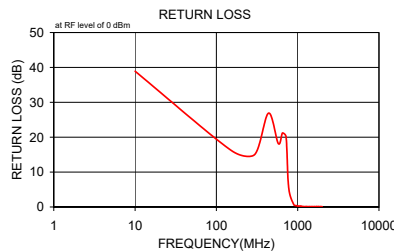
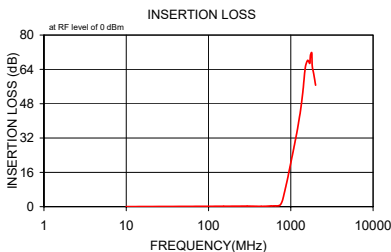


electrical schematic



Typical Performance Data

| Frequency (MHz) | Insertion Loss (dB) | | Return Loss (dB) | Frequency (MHz) | Group Delay (nsec) |
|-----------------|---------------------|----------|------------------|-----------------|--------------------|
| | \bar{x} | σ | | | |
| 10.00 | 0.04 | 0.1 | 38.9 | 10.0 | 0.96 |
| 152.50 | 0.20 | 0.1 | 16.2 | 80.0 | 1.03 |
| 295.00 | 0.26 | 0.1 | 15.0 | 152.5 | 1.00 |
| 437.50 | 0.18 | 0.1 | 26.9 | 222.5 | 0.96 |
| 577.50 | 0.32 | 0.1 | 18.2 | 295.0 | 1.07 |
| 650.00 | 0.35 | 0.1 | 21.2 | 365.0 | 1.03 |
| 720.00 | 0.48 | 0.1 | 20.1 | 437.5 | 1.22 |
| 760.00 | 1.36 | 0.2 | 8.0 | 507.5 | 1.33 |
| 800.00 | 3.45 | 0.3 | 3.7 | 577.5 | 1.36 |
| 900.00 | 11.91 | 0.5 | 0.6 | 650.0 | 1.55 |
| 950.00 | 16.24 | 0.5 | 0.4 | 720.0 | 2.16 |
| 1000.00 | 20.40 | 0.6 | 0.3 | 740.0 | 2.17 |
| 1010.00 | 21.22 | 0.6 | 0.2 | 760.0 | 2.23 |
| 1050.00 | 24.40 | 0.7 | 0.2 | 780.0 | 2.36 |
| 1080.00 | 26.70 | 0.7 | 0.2 | 800.0 | 2.21 |
| 1100.00 | 28.21 | 0.7 | 0.2 | 900.0 | 1.27 |
| 1190.00 | 34.98 | 1.0 | 0.1 | 910.0 | 1.12 |
| 1250.00 | 39.81 | 1.3 | 0.1 | 950.0 | 1.02 |
| 1290.00 | 43.03 | 1.5 | 0.1 | 970.0 | 0.96 |
| 1300.00 | 43.66 | 1.4 | 0.1 | 1000.0 | 0.83 |
| 1400.00 | 53.30 | 3.1 | 0.1 | 1010.0 | 0.89 |
| 1500.00 | 64.81 | 3.4 | 0.1 | 1050.0 | 0.80 |
| 1600.00 | 68.20 | 6.6 | 0.1 | 1080.0 | 0.53 |
| 1700.00 | 66.77 | 2.9 | 0.1 | 1100.0 | 0.73 |
| 1720.00 | 68.97 | 6.7 | 0.1 | 1150.0 | 0.79 |
| 1735.00 | 70.75 | 8.2 | 0.1 | 1190.0 | 0.96 |
| 1800.00 | 71.72 | 6.9 | 0.1 | 1200.0 | 0.38 |
| 1820.00 | 65.74 | 5.8 | 0.1 | 1250.0 | 1.12 |
| 1900.00 | 61.76 | 6.1 | 0.1 | 1290.0 | 0.35 |
| 2000.00 | 56.62 | 3.2 | 0.1 | 1300.0 | 1.12 |



Notes

- 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.
- 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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