

Coaxial Low Pass Filter

SLP-100+

50Ω DC to 98 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

- good attenuation rate, 1.35 typ. 20dB/ 3dB BW ratio
- rugged shielded case
- other SLP models available with wide selection of cut-off frequencies

Applications

- lab use
- test equipment
- video equipment



| | | | |
|------------------|----------|-------------|-------|
| CASE STYLE: FF99 | | | |
| Connectors | Model | Price | Qty. |
| SMA | SLP-100+ | \$34.95 ea. | (1-9) |

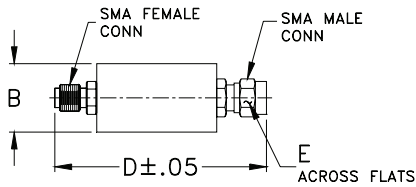
+ RoHS compliant in accordance with EU Directive (2002/95/EC)

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

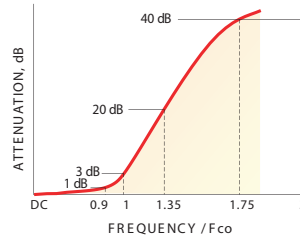
Low Pass Filter Electrical Specifications

| PASSBAND (MHz) | fco (MHz) Nom. | STOPBAND (MHz) | | VSWR (:1) | |
|----------------|----------------|----------------|----------------|---------------|---------------|
| | | (loss > 20 dB) | (loss > 40 dB) | Passband Typ. | Stopband Typ. |
| DC-98 | 108 | 146-189 | 189-400 | 1.7 | 18 |

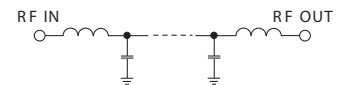
Outline Drawing



typical frequency response



electrical schematic

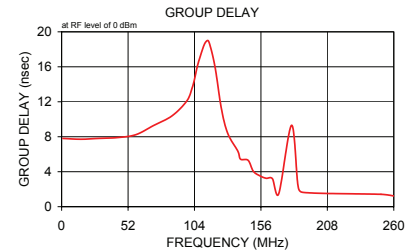
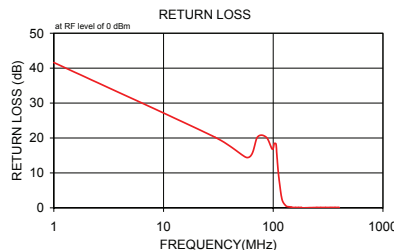
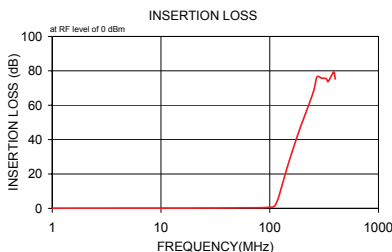


Outline Dimensions (inch/mm)

| B | D | E | wt |
|-------|-------|------|-------|
| .67 | 1.98 | .312 | grams |
| 17.02 | 50.29 | 7.92 | 42.0 |

Typical Performance Data

| Frequency (MHz) | Insertion Loss (dB) | | Return Loss (dB) | Frequency (MHz) | Group Delay (nsec) |
|-----------------|---------------------|----------|------------------|-----------------|--------------------|
| | \bar{x} | σ | | | |
| 1.00 | 0.02 | 0.1 | 41.6 | 1.00 | 7.802 |
| 29.50 | 0.16 | 0.1 | 20.2 | 15.00 | 7.718 |
| 58.00 | 0.34 | 0.1 | 14.4 | 29.50 | 7.812 |
| 72.00 | 0.31 | 0.1 | 20.3 | 43.50 | 7.901 |
| 86.50 | 0.41 | 0.1 | 20.2 | 58.00 | 8.226 |
| 98.00 | 0.58 | 0.1 | 16.8 | 72.00 | 9.283 |
| 102.00 | 0.62 | 0.1 | 18.4 | 86.50 | 10.402 |
| 106.00 | 0.75 | 0.1 | 18.3 | 98.00 | 12.091 |
| 108.00 | 0.93 | 0.2 | 15.0 | 102.00 | 13.505 |
| 112.00 | 1.72 | 0.5 | 9.3 | 104.00 | 14.551 |
| 120.00 | 5.98 | 1.3 | 2.5 | 106.00 | 15.904 |
| 130.01 | 13.62 | 1.3 | 0.6 | 108.00 | 16.952 |
| 138.02 | 19.37 | 1.2 | 0.3 | 112.00 | 18.647 |
| 140.02 | 20.73 | 1.2 | 0.3 | 115.00 | 18.923 |
| 146.02 | 24.55 | 1.2 | 0.2 | 120.00 | 16.027 |
| 150.03 | 26.95 | 1.1 | 0.1 | 125.00 | 11.256 |
| 160.03 | 32.54 | 1.2 | 0.1 | 130.00 | 8.381 |
| 170.04 | 37.64 | 1.2 | 0.1 | 138.00 | 6.335 |
| 180.04 | 42.35 | 1.2 | 0.1 | 140.00 | 5.440 |
| 185.04 | 44.43 | 1.3 | 0.0 | 146.00 | 5.302 |
| 189.05 | 46.24 | 1.4 | 0.0 | 150.00 | 4.068 |
| 250.07 | 67.20 | 3.6 | 0.1 | 155.00 | 3.545 |
| 271.58 | 76.41 | 8.4 | 0.1 | 160.00 | 3.249 |
| 300.08 | 75.73 | 6.4 | 0.1 | 165.00 | 3.192 |
| 330.08 | 75.45 | 3.9 | 0.1 | 170.00 | 1.495 |
| 343.07 | 73.72 | 2.6 | 0.1 | 180.00 | 9.308 |
| 360.08 | 75.87 | 4.3 | 0.1 | 185.00 | 2.440 |
| 371.58 | 77.51 | 9.8 | 0.1 | 189.00 | 1.634 |
| 390.08 | 79.32 | 7.8 | 0.1 | 250.00 | 1.412 |
| 400.08 | 75.26 | 2.4 | 0.1 | 260.00 | 1.228 |



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Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuit's standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp.

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