

Coaxial Low Pass Filter

SLP-5+

50Ω DC to 5 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



Generic photo used for illustration purposes only

CASE STYLE: FF99

Connectors Model
SMA SLP-5+

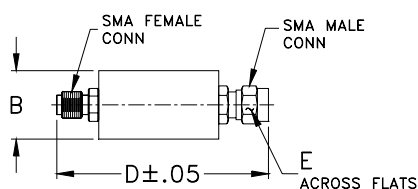
+RoHS Compliant

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-5 | 6 | 8-10 | 10-200 | 1.7 | 18 |

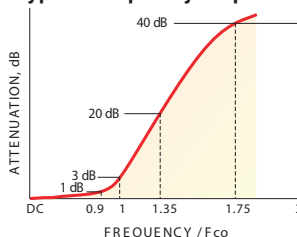
Outline Drawing



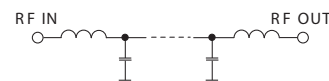
Outline Dimensions (inch/mm)

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

typical frequency response

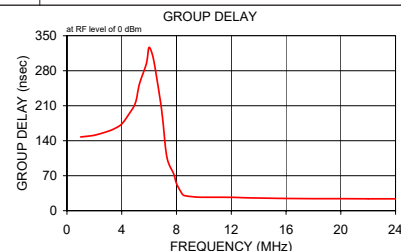
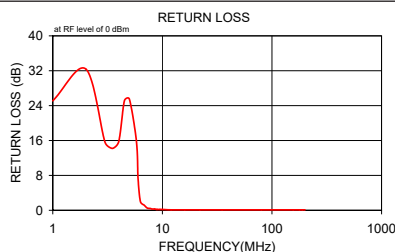


electrical schematic



Typical Performance Data

| Frequency (MHz) | Insertion Loss (dB) | | Return Loss (dB) | Frequency (MHz) | Group Delay (nsec) |
|-----------------|---------------------|----------|------------------|-----------------|--------------------|
| | \bar{x} | σ | | | |
| 1.0 | 0.08 | 0.1 | 25.1 | 1.0 | 147.47 |
| 2.0 | 0.13 | 0.1 | 32.4 | 2.0 | 150.99 |
| 3.0 | 0.34 | 0.1 | 15.6 | 3.0 | 158.96 |
| 3.5 | 0.69 | 0.1 | 14.2 | 3.5 | 164.57 |
| 4.0 | 0.71 | 0.1 | 15.8 | 4.0 | 173.42 |
| 4.5 | 0.73 | 0.1 | 25.1 | 4.5 | 192.06 |
| 5.0 | 0.91 | 0.1 | 25.5 | 5.0 | 215.98 |
| 5.8 | 2.41 | 0.7 | 15.8 | 5.3 | 253.98 |
| 6.0 | 3.35 | 0.8 | 7.2 | 5.8 | 294.32 |
| 6.3 | 9.49 | 1.3 | 2.0 | 6.0 | 326.82 |
| 6.8 | 11.67 | 1.1 | 1.2 | 6.3 | 305.70 |
| 7.0 | 16.87 | 1.2 | 0.9 | 6.8 | 223.89 |
| 7.3 | 23.49 | 1.1 | 0.5 | 7.0 | 180.77 |
| 7.8 | 29.30 | 1.0 | 0.4 | 7.3 | 106.74 |
| 8.0 | 34.55 | 1.0 | 0.3 | 7.8 | 73.25 |
| 8.3 | 39.27 | 1.0 | 0.3 | 8.0 | 54.49 |
| 8.5 | 41.68 | 1.1 | 0.3 | 8.3 | 38.64 |
| 8.8 | 42.05 | 1.1 | 0.2 | 8.5 | 31.12 |
| 9.0 | 42.44 | 1.1 | 0.2 | 8.8 | 29.13 |
| 9.5 | 43.73 | 1.1 | 0.2 | 9.0 | 28.46 |
| 10.0 | 47.90 | 1.1 | 0.2 | 9.5 | 27.23 |
| 12.0 | 63.04 | 1.6 | 0.1 | 10.0 | 26.91 |
| 16.0 | 75.52 | 4.1 | 0.1 | 12.0 | 26.68 |
| 22.0 | 75.62 | 9.9 | 0.1 | 13.0 | 25.95 |
| 35.0 | 74.63 | 3.9 | 0.1 | 14.0 | 25.34 |
| 80.0 | 77.85 | 6.6 | 0.1 | 16.0 | 24.48 |
| 156.0 | 81.35 | 8.6 | 0.1 | 18.0 | 24.08 |
| 178.0 | 75.08 | 2.3 | 0.1 | 20.0 | 24.00 |
| 189.0 | 77.64 | 6.8 | 0.1 | 22.0 | 23.82 |
| 200.0 | 78.15 | 5.2 | 0.1 | 24.0 | 23.72 |



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.
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