

Coaxial Low Pass Filter

SLP-30+

50Ω DC to 32 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 SMA Model SLP-30+

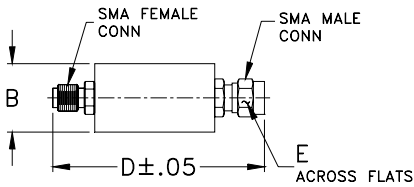
+RoHS Compliant

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-32 | 35 | 47-61 | 61-200 | 1.7 | 18 |

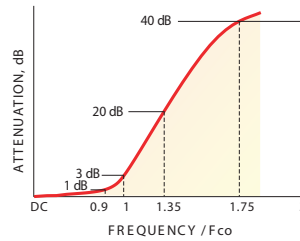
Outline Drawing



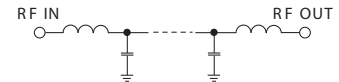
Outline Dimensions (inch/mm)

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

typical frequency response

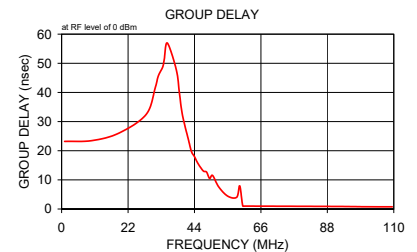
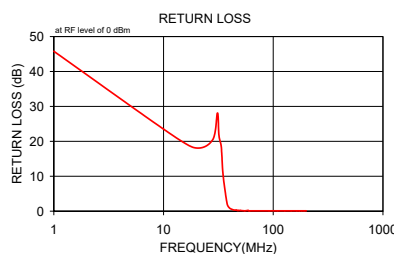


electrical schematic



Typical Performance Data

| Frequency (MHz) | Insertion Loss (dB) | | Return Loss (dB) | Frequency (MHz) | Group Delay (nsec) |
|-----------------|---------------------|----------|------------------|-----------------|--------------------|
| | \bar{x} | σ | | | |
| 1.00 | 0.07 | 0.1 | 45.8 | 1.00 | 23.20 |
| 10.00 | 0.21 | 0.1 | 23.5 | 10.00 | 23.47 |
| 19.00 | 0.29 | 0.1 | 18.2 | 19.00 | 26.06 |
| 28.00 | 0.37 | 0.1 | 20.4 | 28.00 | 32.45 |
| 31.00 | 0.48 | 0.1 | 28.1 | 31.00 | 41.59 |
| 32.00 | 0.55 | 0.1 | 21.8 | 32.00 | 45.56 |
| 33.50 | 0.62 | 0.1 | 18.8 | 33.50 | 48.79 |
| 34.00 | 0.76 | 0.1 | 16.1 | 34.00 | 51.33 |
| 35.00 | 1.30 | 0.3 | 9.9 | 35.00 | 56.96 |
| 38.00 | 6.09 | 0.9 | 2.1 | 38.00 | 47.73 |
| 40.00 | 10.78 | 0.9 | 0.9 | 39.00 | 39.87 |
| 43.00 | 17.56 | 0.8 | 0.4 | 40.00 | 32.35 |
| 45.00 | 21.65 | 0.7 | 0.3 | 42.00 | 23.79 |
| 46.00 | 23.56 | 0.7 | 0.3 | 43.00 | 19.72 |
| 47.00 | 25.39 | 0.7 | 0.2 | 44.00 | 17.97 |
| 48.00 | 27.19 | 0.7 | 0.2 | 45.00 | 15.87 |
| 50.00 | 30.58 | 0.6 | 0.2 | 46.00 | 14.29 |
| 55.00 | 38.32 | 0.6 | 0.1 | 47.00 | 12.98 |
| 59.00 | 43.69 | 0.7 | 0.2 | 48.00 | 12.68 |
| 60.00 | 45.01 | 0.7 | 0.1 | 49.00 | 10.48 |
| 61.00 | 46.27 | 0.5 | 0.1 | 50.00 | 11.50 |
| 91.50 | 76.88 | 4.1 | 0.1 | 52.00 | 7.62 |
| 109.50 | 80.77 | 5.3 | 0.1 | 55.00 | 4.41 |
| 127.50 | 79.89 | 2.8 | 0.1 | 58.00 | 4.04 |
| 145.50 | 77.20 | 3.0 | 0.1 | 59.00 | 7.93 |
| 164.00 | 74.52 | 3.4 | 0.1 | 60.00 | 1.04 |
| 173.00 | 74.92 | 3.8 | 0.1 | 61.00 | 0.99 |
| 182.00 | 78.05 | 5.9 | 0.1 | 91.50 | 0.88 |
| 191.00 | 79.62 | 6.8 | 0.1 | 100.50 | 0.79 |
| 200.00 | 80.65 | 6.9 | 0.1 | 109.50 | 0.75 |



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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