

# Coaxial Low Pass Filter

50Ω DC to 900 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

SLP-1000+



Generic photo used for illustration purposes only

CASE STYLE: FF99

Connectors Model  
SMA SLP-1000+

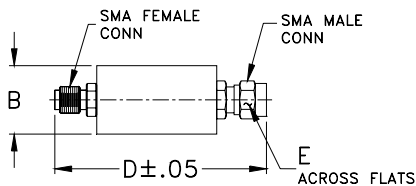
+RoHS Compliant

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

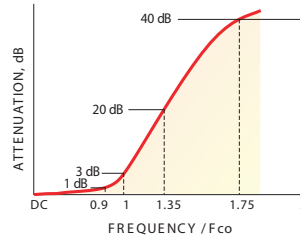
## Low Pass Filter Electrical Specifications

| PASSBAND<br>(MHz) | fco (MHz)<br>Nom. | STOPBAND<br>(MHz) |                | VSWR<br>(:1)     |                  |
|-------------------|-------------------|-------------------|----------------|------------------|------------------|
|                   |                   | (loss > 20 dB)    | (loss > 40 dB) | Passband<br>Typ. | Stopband<br>Typ. |
| (loss < 1 dB)     | (loss 3 dB)       |                   |                |                  |                  |
| DC-900            | 990               | 1340-1750         | 1750-2000      | 1.7              | 18               |

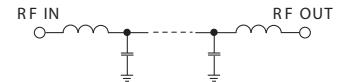
## Outline Drawing



## typical frequency response



## electrical schematic

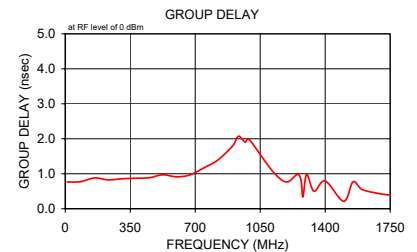
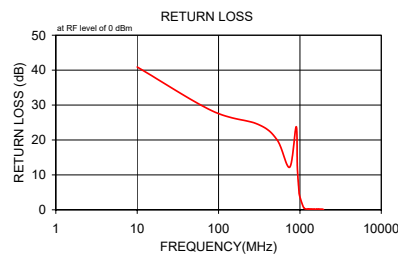
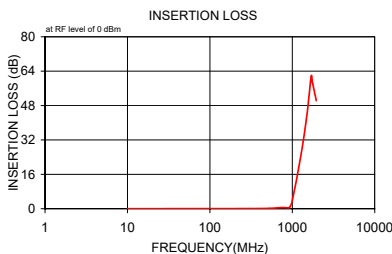


## Outline Dimensions (inch/mm)

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

## Typical Performance Data

| Frequency<br>(MHz) | Insertion Loss<br>(dB) |          | Return Loss<br>(dB) | Frequency<br>(MHz) | Group Delay<br>(nsec) |
|--------------------|------------------------|----------|---------------------|--------------------|-----------------------|
|                    | $\bar{x}$              | $\sigma$ |                     |                    |                       |
| 10.00              | 0.01                   | 0.0      | 40.9                | 10.00              | 0.77                  |
| 82.50              | 0.02                   | 0.0      | 28.4                | 82.50              | 0.77                  |
| 305.00             | 0.07                   | 0.1      | 24.5                | 157.50             | 0.88                  |
| 525.00             | 0.17                   | 0.1      | 20.0                | 230.00             | 0.83                  |
| 747.50             | 0.54                   | 0.1      | 12.2                | 305.00             | 0.86                  |
| 900.00             | 0.40                   | 0.1      | 23.8                | 377.50             | 0.87                  |
| 930.00             | 0.75                   | 0.1      | 12.4                | 452.50             | 0.89                  |
| 970.00             | 2.06                   | 0.2      | 5.9                 | 525.00             | 0.97                  |
| 990.00             | 3.10                   | 0.2      | 4.1                 | 600.00             | 0.91                  |
| 1115.00            | 12.75                  | 0.5      | 0.6                 | 672.50             | 0.97                  |
| 1250.00            | 23.28                  | 0.7      | 0.2                 | 747.50             | 1.17                  |
| 1270.00            | 24.76                  | 0.8      | 0.2                 | 820.00             | 1.39                  |
| 1280.00            | 25.53                  | 0.8      | 0.2                 | 900.00             | 1.79                  |
| 1300.00            | 27.07                  | 0.9      | 0.2                 | 930.00             | 2.07                  |
| 1340.00            | 30.19                  | 1.0      | 0.2                 | 950.00             | 2.01                  |
| 1400.00            | 34.90                  | 1.2      | 0.2                 | 970.00             | 1.90                  |
| 1500.00            | 43.32                  | 1.8      | 0.2                 | 990.00             | 1.99                  |
| 1550.00            | 48.04                  | 2.6      | 0.1                 | 1115.00            | 1.08                  |
| 1600.00            | 53.09                  | 3.9      | 0.2                 | 1190.00            | 0.76                  |
| 1700.00            | 61.90                  | 8.3      | 0.2                 | 1250.00            | 0.98                  |
| 1750.00            | 58.54                  | 3.6      | 0.1                 | 1270.00            | 0.81                  |
| 1760.06            | 58.62                  | 6.4      | 0.1                 | 1280.00            | 0.34                  |
| 1790.00            | 57.18                  | 2.8      | 0.1                 | 1300.00            | 0.98                  |
| 1800.00            | 56.81                  | 1.9      | 0.1                 | 1340.00            | 0.50                  |
| 1820.00            | 55.81                  | 3.2      | 0.1                 | 1400.00            | 0.80                  |
| 1850.00            | 54.77                  | 2.3      | 0.1                 | 1500.00            | 0.21                  |
| 1860.00            | 53.85                  | 1.3      | 0.1                 | 1550.00            | 0.77                  |
| 1880.00            | 53.19                  | 1.8      | 0.1                 | 1600.00            | 0.55                  |
| 1900.05            | 52.56                  | 1.6      | 0.1                 | 1700.00            | 0.43                  |
| 1950.00            | 50.28                  | 1.1      | 0.1                 | 1750.00            | 0.39                  |



## Notes

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