

# Coaxial Low Pass Filter

50Ω DC to 1000 MHz

## Maximum Ratings

|                       |                |
|-----------------------|----------------|
| Operating Temperature | -55°C to 100°C |
| Storage Temperature   | -55°C to 100°C |
| RF Power Input        | 0.5W max.      |

## 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-1200+  
SLP-1200



| Connectors | CASE STYLE: FF99<br>Model | Price       | Qty.  |
|------------|---------------------------|-------------|-------|
| SMA        | SLP-1200(+)               | \$34.95 ea. | (1-9) |

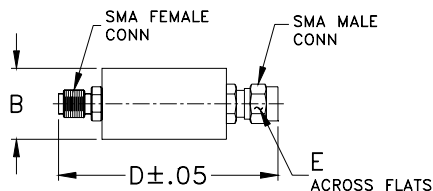
**+ RoHS compliant in accordance with EU Directive (2002/95/EC)**

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 < 1 dB)  | (loss 3 dB)    | (loss > 20 dB) (loss > 40 dB) | Passband Typ. Stopband Typ. |
| DC-1000        | 1200           | 1620-2100 2100-2500           | 1.7 18                      |

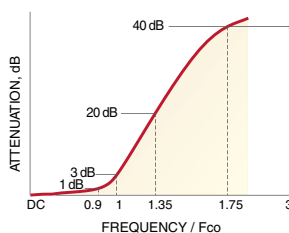
## Outline Drawing



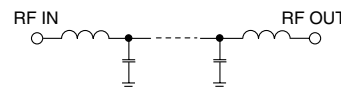
## Outline Dimensions (inch/mm)

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

## typical frequency response

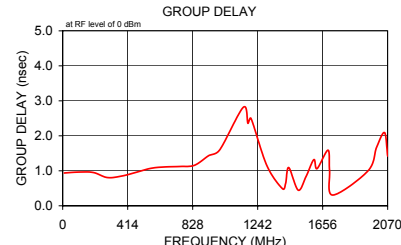
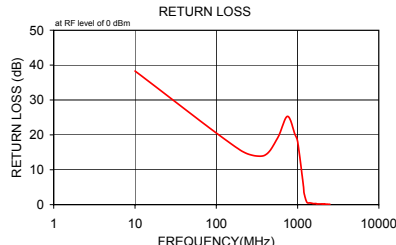
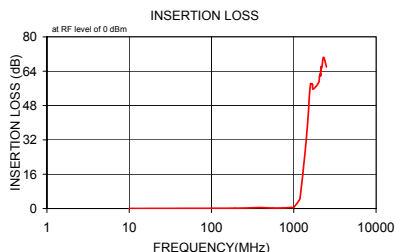


## electrical schematic



## Typical Performance Data

| Frequency (MHz) | Insertion Loss (dB) | Return Loss (dB) | Frequency (MHz) | Group Delay (nsec) |
|-----------------|---------------------|------------------|-----------------|--------------------|
|                 | $\bar{x}$ $\sigma$  |                  |                 |                    |
| 10.00           | 0.03 0.0            | 38.3             | 10.00           | 0.94               |
| 195.00          | 0.16 0.1            | 15.7             | 100.00          | 0.96               |
| 380.00          | 0.43 0.1            | 14.0             | 195.00          | 0.95               |
| 565.00          | 0.24 0.1            | 19.0             | 285.00          | 0.81               |
| 750.00          | 0.29 0.1            | 25.3             | 380.00          | 0.85               |
| 930.00          | 0.48 0.1            | 20.1             | 470.00          | 0.96               |
| 1000.00         | 0.55 0.1            | 18.1             | 565.00          | 1.07               |
| 1180.00         | 4.25 1.9            | 5.3              | 655.00          | 1.11               |
| 1200.00         | 5.69 2.2            | 3.4              | 750.00          | 1.12               |
| 1300.00         | 17.67 3.0           | 0.7              | 840.00          | 1.16               |
| 1420.00         | 32.19 3.6           | 0.5              | 930.00          | 1.43               |
| 1500.00         | 43.83 5.7           | 0.4              | 1000.00         | 1.60               |
| 1550.00         | 53.20 7.9           | 0.3              | 1150.00         | 2.81               |
| 1600.00         | 58.27 7.5           | 0.3              | 1180.00         | 2.36               |
| 1620.00         | 57.94 6.7           | 0.3              | 1200.00         | 2.49               |
| 1690.00         | 58.01 8.4           | 0.3              | 1300.00         | 1.15               |
| 1720.00         | 55.64 6.2           | 0.2              | 1400.00         | 0.50               |
| 2000.00         | 58.68 3.8           | 0.2              | 1420.00         | 0.64               |
| 2050.00         | 61.62 3.9           | 0.1              | 1440.00         | 1.09               |
| 2070.00         | 62.15 5.5           | 0.1              | 1500.00         | 0.45               |
| 2100.00         | 62.95 5.6           | 0.1              | 1550.00         | 0.84               |
| 2110.00         | 62.89 5.0           | 0.1              | 1600.00         | 1.32               |
| 2120.00         | 61.95 4.1           | 0.1              | 1620.00         | 1.06               |
| 2130.00         | 64.71 5.4           | 0.1              | 1690.00         | 1.59               |
| 2140.00         | 66.13 8.4           | 0.1              | 1700.00         | 1.01               |
| 2150.00         | 64.30 6.7           | 0.1              | 1720.00         | 0.31               |
| 2160.00         | 65.10 7.9           | 0.1              | 1945.00         | 1.00               |
| 2200.00         | 65.98 8.1           | 0.1              | 2000.00         | 1.67               |
| 2300.00         | 70.50 9.9           | 0.1              | 2050.00         | 2.09               |
| 2500.00         | 65.98 4.1           | 0.1              | 2070.00         | 1.42               |



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