

# Low Pass Filter

SLP-15

50Ω DC to 15 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



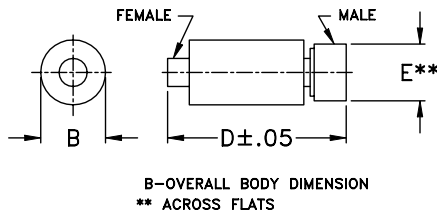
CASE STYLE: FF99

| Connectors | Model  | Price       | Qty.  |
|------------|--------|-------------|-------|
| SMA        | SLP-15 | \$34.95 ea. | (1-9) |

## Low Pass Filter Electrical Specifications

| PASSBAND<br>(MHz) | fco (MHz)<br>Nom. | STOPBAND<br>(MHz)             | VSWR<br>(:1)                      |
|-------------------|-------------------|-------------------------------|-----------------------------------|
| (loss < 1 dB)     | (loss 3 dB)       | (loss > 20 dB) (loss > 40 dB) | Passband<br>Typ. Stopband<br>Typ. |
| DC-15             | 17                | 23-32 32-200                  | 1.7 18                            |

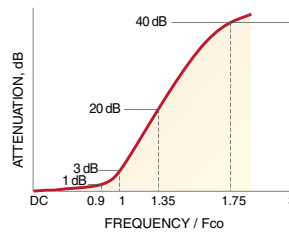
## Outline Drawing



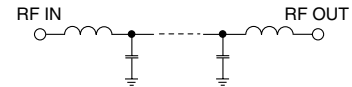
## Outline Dimensions (inch/mm)

| 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<br>(MHz) | Insertion Loss<br>(dB) | Return Loss<br>(dB) | Frequency<br>(MHz) | Group Delay<br>(nsec) |
|--------------------|------------------------|---------------------|--------------------|-----------------------|
|                    | $\bar{x}$ $\sigma$     |                     |                    |                       |
| 1.00               | 0.21 0.04              | 24.91               | 1.00               | 48.07                 |
| 3.00               | 0.26 0.04              | 20.32               | 1.10               | 47.91                 |
| 5.00               | 0.30 0.04              | 20.46               | 1.30               | 48.21                 |
| 7.00               | 0.33 0.05              | 25.27               | 1.40               | 47.67                 |
| 9.00               | 0.38 0.05              | 24.09               | 1.60               | 48.07                 |
| 11.00              | 0.47 0.07              | 20.00               | 1.80               | 47.68                 |
| 13.00              | 0.58 0.07              | 19.00               | 2.00               | 48.30                 |
| 15.00              | 0.81 0.06              | 16.36               | 2.30               | 48.44                 |
| 17.00              | 2.32 0.37              | 7.61                | 2.50               | 48.37                 |
| 19.00              | 8.82 0.63              | 2.63                | 2.90               | 48.63                 |
| 19.80              | 12.25 0.57             | 2.04                | 3.20               | 48.63                 |
| 20.60              | 15.66 0.53             | 1.72                | 3.60               | 48.80                 |
| 21.40              | 18.93 0.50             | 1.51                | 4.00               | 48.88                 |
| 22.20              | 22.02 0.48             | 1.36                | 4.60               | 49.48                 |
| 23.00              | 24.94 0.48             | 1.25                | 5.10               | 49.49                 |
| 23.80              | 27.72 0.47             | 1.15                | 5.80               | 50.43                 |
| 25.40              | 32.87 0.50             | 0.99                | 6.50               | 50.77                 |
| 27.10              | 37.90 0.60             | 0.86                | 7.30               | 51.87                 |
| 28.70              | 42.24 0.70             | 0.76                | 8.20               | 53.05                 |
| 30.40              | 46.55 0.86             | 0.67                | 9.30               | 54.47                 |
| 32.00              | 50.45 1.02             | 0.60                | 10.40              | 56.61                 |
| 33.60              | 54.18 1.48             | 0.55                | 11.70              | 60.33                 |
| 54.40              | 77.82 6.04             | 0.22                | 13.10              | 66.08                 |
| 75.20              | 77.17 4.69             | 0.12                | 15.00              | 80.27                 |
| 96.00              | 81.80 4.39             | 0.09                | 17.00              | 100.53                |
| 116.80             | 80.95 4.80             | 0.08                | 18.80              | 81.42                 |
| 137.60             | 80.75 3.87             | 0.07                | 21.10              | 43.84                 |
| 158.40             | 83.26 4.95             | 0.07                | 23.00              | 28.31                 |
| 179.20             | 79.58 3.64             | 0.06                | 26.60              | 15.72                 |
| 200.00             | 80.96 5.21             | 0.06                | 30.00              | 10.37                 |

