

# Low Pass Filter

SLP-1650

50Ω DC to 1400 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

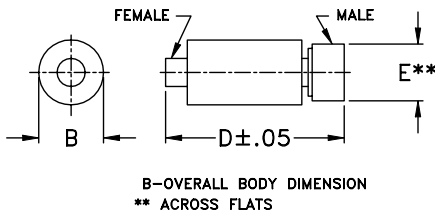
- lab use
- test equipment
- video equipment

| CASE STYLE: FF99 |          |             |       |
|------------------|----------|-------------|-------|
| Connectors       | Model    | Price       | Qty.  |
| SMA              | SLP-1650 | \$36.95 ea. | (1-9) |

## 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. |
| DC-1400           | 1650              | 2300-2900         | 2900-6000      | 1.3              | 18               |

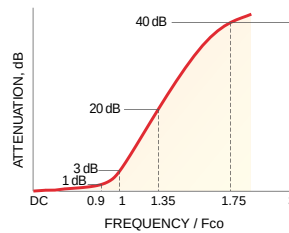
## Outline Drawing



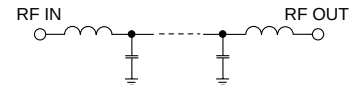
## Outline Dimensions (inch/mm)

| 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) |
|--------------------|------------------------|----------|---------------------|--------------------|-----------------------|
|                    | $\bar{x}$              | $\sigma$ |                     |                    |                       |
| 10.00              | 0.01                   | 0.00     | 54.57               | 10.00              | 0.67                  |
| 83.15              | 0.03                   | 0.00     | 44.01               | 83.15              | 0.63                  |
| 156.31             | 0.04                   | 0.00     | 41.59               | 156.31             | 0.62                  |
| 302.63             | 0.07                   | 0.01     | 42.96               | 302.63             | 0.63                  |
| 448.94             | 0.09                   | 0.01     | 46.71               | 448.94             | 0.64                  |
| 522.10             | 0.10                   | 0.01     | 39.86               | 522.10             | 0.64                  |
| 668.42             | 0.11                   | 0.01     | 31.98               | 668.42             | 0.65                  |
| 814.73             | 0.14                   | 0.01     | 27.73               | 814.73             | 0.67                  |
| 961.05             | 0.17                   | 0.01     | 24.86               | 961.05             | 0.70                  |
| 1034.21            | 0.17                   | 0.01     | 23.60               | 1034.21            | 0.73                  |
| 1107.36            | 0.19                   | 0.01     | 22.24               | 1107.36            | 0.75                  |
| 1253.68            | 0.25                   | 0.02     | 18.78               | 1253.68            | 0.81                  |
| 1326.84            | 0.31                   | 0.02     | 16.60               | 1326.84            | 0.84                  |
| 1400.00            | 0.42                   | 0.02     | 14.05               | 1400.00            | 0.88                  |
| 1650.00            | 2.45                   | 0.50     | 4.55                | 1650.00            | 1.09                  |
| 2300.00            | 25.15                  | 0.47     | 0.18                | 2300.00            | 0.52                  |
| 2600.00            | 34.79                  | 0.99     | 0.13                | 2600.00            | 0.42                  |
| 2900.00            | 43.62                  | 2.12     | 0.12                | 2900.00            | 0.39                  |
| 4450.00            | 74.07                  | 10.02    | 0.14                | 4450.00            | 0.33                  |
| 6000.00            | 67.71                  | 13.03    | 0.12                | 6000.00            | 0.35                  |

