

# Coaxial Low Pass Filter

50Ω DC to 1400 MHz

SLP-1650+  
SLP-1650



## 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

CASE STYLE: FF99

| Connectors | Model       | Price       | Qty.  |
|------------|-------------|-------------|-------|
| SMA        | SLP-1650(+) | \$36.95 ea. | (1-9) |

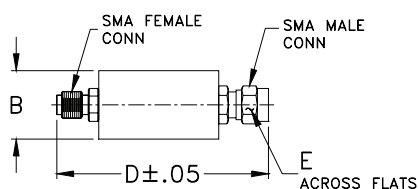
**+ RoHS compliant in accordance with EU Directive (2002/95/EC)**

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

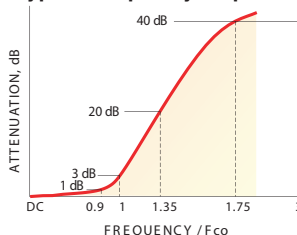
## Low Pass Filter Electrical Specifications

| 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-1400        | 1650           | 2300-2900 2900-6000           | 1.3 18                      |

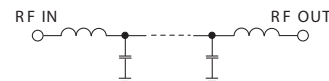
## Outline Drawing



## typical frequency response



## electrical schematic

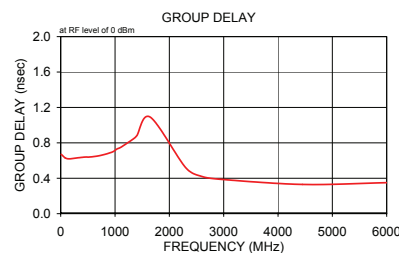
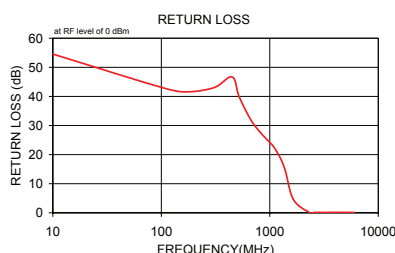
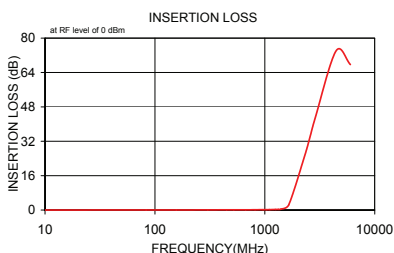


## Outline Dimensions (inch/mm)

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

## Typical Performance Data

| Frequency (MHz) | Insertion Loss (dB) $\bar{x}$ $\sigma$ | Return Loss (dB) | Frequency (MHz) | Group Delay (nsec) |
|-----------------|----------------------------------------|------------------|-----------------|--------------------|
| 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               |



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