

# Coaxial Low Pass Filter

## BLP-100-75+

75Ω DC to 98 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

- rugged shielded case
- other standard and custom BLP models available with wide selection of fco

### Applications

- test equipment
- lab use
- video equipment



Generic photo used for illustration purposes only

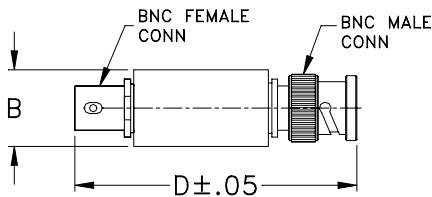
CASE STYLE: FF55

| Connectors | Model       |
|------------|-------------|
| BNC        | BLP-100-75+ |

### +RoHS Compliant

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

### Outline Drawing



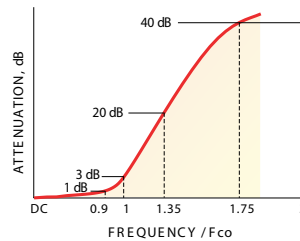
### Outline Dimensions (inch/mm)

| B     | D     | wt    |
|-------|-------|-------|
| .57   | 2.59  | grams |
| 14.47 | 65.79 | 40.0  |

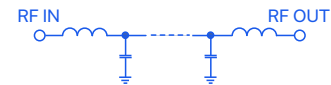
### Low Pass Filter Electrical Specifications

| PASSBAND (MHz) | fco (MHz) Nom. | STOPBAND (MHz) |                | VSWR (:1)     |               |
|----------------|----------------|----------------|----------------|---------------|---------------|
|                |                | (loss > 20 dB) | (loss > 40 dB) | Passband Typ. | Stopband Typ. |
| DC-98          | 108            | 146-189        | 189-400        | 1.7           | 18            |

### typical frequency response

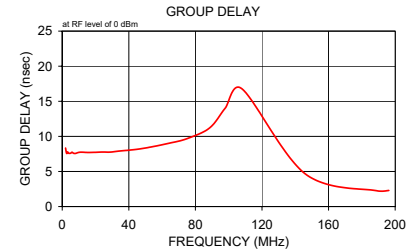
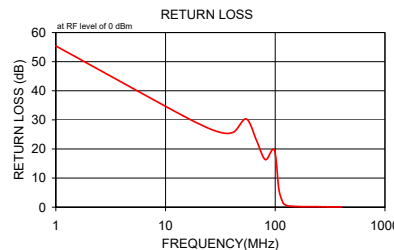
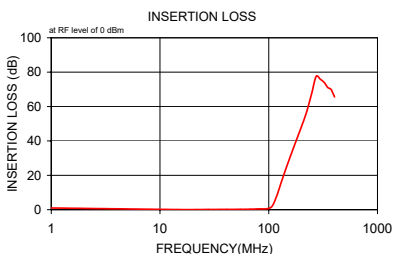


### electrical schematic



### Typical Performance Data

| Frequency (MHz) | Insertion Loss (dB) |          | Return Loss (dB) | Frequency (MHz) | Group Delay (nsec) |
|-----------------|---------------------|----------|------------------|-----------------|--------------------|
|                 | $\bar{x}$           | $\sigma$ |                  |                 |                    |
| 1.00            | 1.00                | 0.00     | 55.39            | 2.00            | 8.34               |
| 14.40           | 0.09                | 0.00     | 31.44            | 2.34            | 7.84               |
| 27.80           | 0.14                | 0.00     | 26.34            | 2.73            | 7.56               |
| 41.10           | 0.18                | 0.01     | 25.69            | 3.19            | 7.79               |
| 54.50           | 0.22                | 0.01     | 30.30            | 3.72            | 7.62               |
| 67.90           | 0.29                | 0.01     | 22.73            | 4.34            | 7.59               |
| 81.30           | 0.45                | 0.04     | 16.35            | 5.07            | 7.61               |
| 98.00           | 0.62                | 0.07     | 19.63            | 5.91            | 7.74               |
| 108.00          | 2.25                | 0.40     | 6.07             | 6.90            | 7.59               |
| 118.00          | 7.71                | 0.73     | 1.47             | 8.05            | 7.58               |
| 123.60          | 11.47               | 0.75     | 0.78             | 9.39            | 7.69               |
| 129.20          | 15.15               | 0.72     | 0.50             | 10.96           | 7.75               |
| 134.80          | 18.64               | 0.71     | 0.37             | 12.94           | 7.74               |
| 140.40          | 21.90               | 0.69     | 0.30             | 15.10           | 7.71               |
| 146.00          | 24.97               | 0.68     | 0.26             | 17.83           | 7.72               |
| 151.60          | 27.86               | 0.69     | 0.23             | 20.81           | 7.74               |
| 159.10          | 31.52               | 0.70     | 0.21             | 24.57           | 7.77               |
| 166.60          | 34.94               | 0.73     | 0.19             | 28.67           | 7.76               |
| 174.00          | 38.15               | 0.75     | 0.18             | 33.85           | 7.90               |
| 181.50          | 41.21               | 0.85     | 0.18             | 39.50           | 8.02               |
| 189.00          | 44.21               | 0.98     | 0.17             | 46.64           | 8.21               |
| 196.50          | 47.04               | 1.03     | 0.17             | 54.43           | 8.54               |
| 221.90          | 56.41               | 1.79     | 0.16             | 64.27           | 9.03               |
| 247.40          | 67.24               | 4.43     | 0.14             | 75.00           | 9.68               |
| 272.80          | 77.49               | 6.61     | 0.11             | 88.56           | 11.21              |
| 298.30          | 75.88               | 6.64     | 0.10             | 98.00           | 14.05              |
| 323.70          | 73.99               | 6.37     | 0.08             | 108.00          | 16.77              |
| 349.10          | 71.06               | 5.19     | 0.08             | 146.00          | 4.66               |
| 374.60          | 69.94               | 3.57     | 0.08             | 189.00          | 2.25               |
| 403.00          | 65.59               | 2.49     | 0.08             | 196.20          | 2.29               |



### Notes

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