

Coaxial Low Pass Filter

BLP-850+

50Ω DC to 780 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

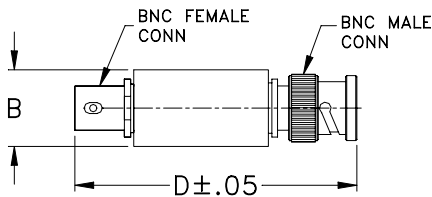
CASE STYLE: FF55

| Connectors | Model |
|------------|----------|
| BNC | BLP-850+ |

+RoHS Compliant

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

Outline Drawing



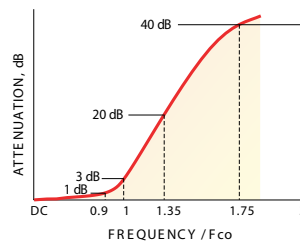
Outline Dimensions (inch/mm)

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

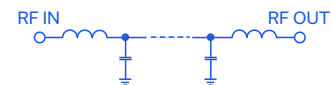
Low Pass Filter Electrical Specifications

| PASSBAND (MHz) | fco (MHz) Nom. | STOPBAND (MHz) | | VSWR (:1) | |
|----------------|----------------|----------------|----------------|---------------|---------------|
| | | (loss > 20 dB) | (loss > 40 dB) | Passband Typ. | Stopband Typ. |
| DC-780 | 850 | 1100-1400 | 1400-2000 | 1.7 | 18 |

typical frequency response

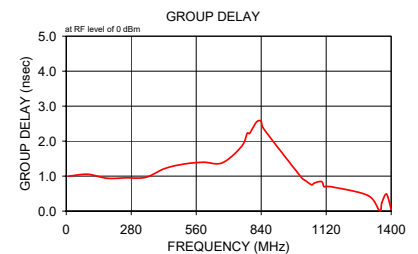
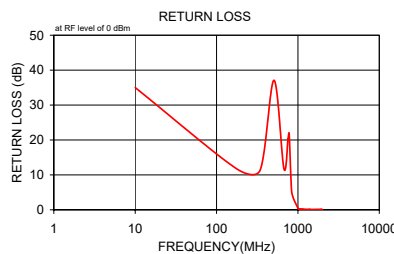


electrical schematic



Typical Performance Data

| Frequency (MHz) | Insertion Loss (dB) | | Return Loss (dB) | Frequency (MHz) | Group Delay (nsec) |
|-----------------|---------------------|----------|------------------|-----------------|--------------------|
| | \bar{x} | σ | | | |
| 10.00 | 0.02 | 0.1 | 35.0 | 10.0 | 1.00 |
| 175.00 | 0.38 | 0.1 | 11.8 | 92.5 | 1.05 |
| 342.50 | 0.44 | 0.1 | 11.3 | 175.0 | 0.94 |
| 507.50 | 0.18 | 0.1 | 37.1 | 257.5 | 0.95 |
| 672.50 | 0.57 | 0.1 | 11.8 | 342.5 | 0.97 |
| 755.00 | 0.43 | 0.1 | 20.2 | 425.0 | 1.22 |
| 780.00 | 0.40 | 0.1 | 21.9 | 507.5 | 1.35 |
| 820.00 | 1.33 | 0.6 | 9.1 | 590.0 | 1.40 |
| 850.00 | 3.00 | 0.9 | 4.4 | 672.5 | 1.38 |
| 1010.00 | 17.47 | 1.1 | 0.3 | 755.0 | 1.85 |
| 1030.00 | 19.18 | 1.1 | 0.2 | 780.0 | 2.23 |
| 1050.00 | 20.83 | 1.1 | 0.2 | 790.0 | 2.22 |
| 1060.00 | 21.63 | 1.1 | 0.2 | 820.0 | 2.55 |
| 1070.00 | 22.41 | 1.1 | 0.2 | 840.0 | 2.57 |
| 1100.00 | 24.70 | 1.1 | 0.2 | 850.0 | 2.36 |
| 1110.00 | 25.52 | 1.1 | 0.2 | 1010.0 | 0.99 |
| 1150.00 | 28.51 | 1.2 | 0.2 | 1020.0 | 0.92 |
| 1350.00 | 43.25 | 1.6 | 0.1 | 1030.0 | 0.88 |
| 1360.00 | 44.10 | 1.9 | 0.1 | 1050.0 | 0.78 |
| 1380.00 | 45.39 | 1.8 | 0.1 | 1060.0 | 0.75 |
| 1400.00 | 47.43 | 2.2 | 0.1 | 1070.0 | 0.80 |
| 1420.00 | 48.89 | 2.1 | 0.1 | 1100.0 | 0.84 |
| 1667.50 | 69.86 | 3.1 | 0.1 | 1110.0 | 0.70 |
| 1750.00 | 70.13 | 6.6 | 0.1 | 1120.0 | 0.70 |
| 1835.00 | 69.30 | 4.7 | 0.1 | 1150.0 | 0.69 |
| 1900.00 | 67.90 | 2.7 | 0.1 | 1300.0 | 0.45 |
| 1920.00 | 70.63 | 3.5 | 0.1 | 1350.0 | 0.02 |
| 1930.00 | 69.67 | 2.6 | 0.1 | 1360.0 | 0.24 |
| 1950.00 | 74.71 | 7.2 | 0.1 | 1380.0 | 0.48 |
| 2000.00 | 68.74 | 4.9 | 0.1 | 1400.0 | 0.05 |



Notes

- Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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