

Coaxial Bandpass Filter

NBP-70+
NBP-70

50Ω Elliptic Response 63 to 77 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

- low insertion loss, 1.5 dB max.
- good selectivity, 1.76 typ. 20 dB/3dB ratio
- rugged shielded case

Applications

- high rejection applications
- image rejection
- IF signal processing



CASE STYLE: FF57

| | | | |
|------------|-----------|-------------|-------|
| Connectors | Model | Price | Qty. |
| N-Type | NBP-70(+) | \$43.95 ea. | (1-9) |

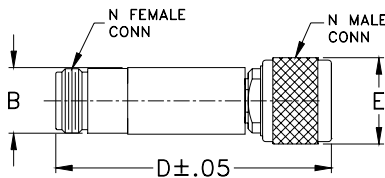
+ RoHS compliant in accordance with EU Directive (2002/95/EC)

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

Bandpass Filter Electrical Specifications

| MODEL NO. | CENTER FREQ. (MHz) | PASSBAND (MHz) | 3dB BANDWIDTH (MHz) | STOPBANDS | | VSWR (:1) | |
|-----------|--------------------|----------------|---------------------|--------------------------|--------------------------|---------------|---------------|
| | | | | (I. loss > 20 dB at MHz) | (I. loss > 35 dB at MHz) | Passband Max. | Stopband Typ. |
| NBP-70(+) | 70 | 63-77 | 58-82 | 51 & 94 | 6.0 & 193-1000 | 1.7 | 16 |

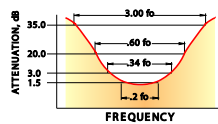
Outline Drawing



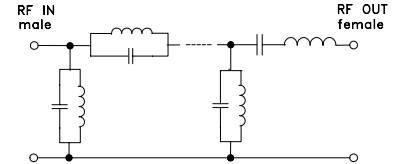
Outline Dimensions (inch/mm)

| B | D | E | wt |
|-------|-------|-------|-------|
| .67 | 2.90 | .82 | grams |
| 17.02 | 73.66 | 20.83 | 90.0 |

typical frequency response

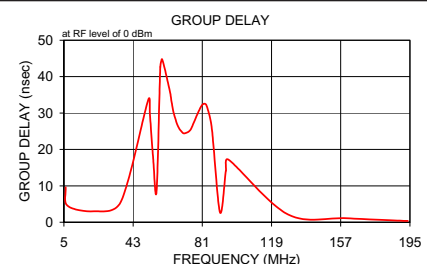
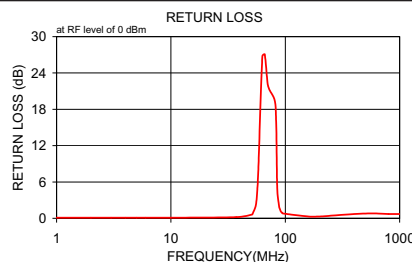
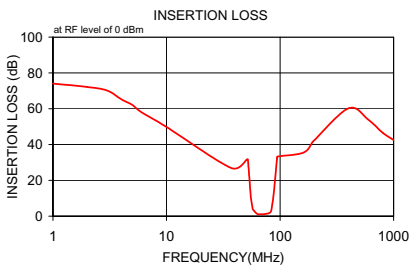


electrical schematic



Typical Performance Data

| Frequency (MHz) | Insertion Loss (dB) | | Return Loss (dB) | Frequency (MHz) | Group Delay (nsec) |
|-----------------|---------------------|----------|------------------|-----------------|--------------------|
| | \bar{x} | σ | | | |
| 1.0 | 74.05 | 9.9 | 0.1 | 6.0 | 9.637 |
| 2.0 | 72.12 | 9.9 | 0.1 | 7.0 | 4.541 |
| 3.0 | 70.17 | 9.9 | 0.1 | 21.0 | 3.025 |
| 4.0 | 65.27 | 9.9 | 0.1 | 36.3 | 5.629 |
| 5.0 | 62.16 | 9.9 | 0.1 | 51.3 | 33.642 |
| 6.0 | 58.09 | 9.9 | 0.1 | 52.2 | 29.619 |
| 10.0 | 49.84 | 8.7 | 0.1 | 54.0 | 17.384 |
| 37.3 | 26.90 | 2.5 | 0.2 | 55.9 | 8.664 |
| 51.0 | 31.67 | 1.6 | 0.6 | 57.9 | 42.682 |
| 52.0 | 31.71 | 6.1 | 0.8 | 58.9 | 44.815 |
| 55.3 | 10.89 | 2.4 | 2.2 | 63.1 | 36.286 |
| 57.0 | 5.56 | 1.5 | 4.8 | 64.2 | 32.857 |
| 58.0 | 3.59 | 1.0 | 7.7 | 65.3 | 30.036 |
| 63.0 | 1.24 | 0.1 | 26.8 | 67.6 | 26.418 |
| 66.2 | 1.10 | 0.1 | 27.1 | 70.0 | 24.706 |
| 70.0 | 1.11 | 0.1 | 22.3 | 71.2 | 24.425 |
| 72.7 | 1.18 | 0.1 | 21.2 | 73.7 | 24.966 |
| 82.0 | 2.13 | 0.6 | 18.8 | 75.0 | 25.878 |
| 85.0 | 6.18 | 2.4 | 5.1 | 77.6 | 28.843 |
| 88.0 | 12.70 | 3.1 | 2.1 | 80.4 | 31.882 |
| 91.0 | 22.06 | 4.0 | 1.2 | 81.8 | 32.569 |
| 94.0 | 32.17 | 1.3 | 0.9 | 83.2 | 32.242 |
| 95.0 | 33.31 | 2.7 | 0.8 | 86.1 | 26.228 |
| 160.3 | 35.43 | 0.7 | 0.3 | 90.7 | 2.764 |
| 193.0 | 41.33 | 1.0 | 0.3 | 93.9 | 14.126 |
| 200.0 | 42.38 | 1.0 | 0.3 | 95.5 | 17.176 |
| 400.0 | 60.24 | 9.9 | 0.7 | 128.1 | 2.113 |
| 600.0 | 53.81 | 8.2 | 0.8 | 160.3 | 1.095 |
| 800.0 | 46.59 | 4.3 | 0.7 | 190.5 | 0.413 |
| 1000.0 | 42.50 | 2.9 | 0.7 | 193.9 | 0.375 |



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IF/RF MICROWAVE COMPONENTS

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