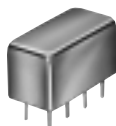


### BANDPASS 10.7 to 70 MHz



PIF  
PBP  
PBLP



NIF  
NBP  
NBLP

#### constant impedance

| MODEL NO. | CENTER FREQ. MHz | PASSBAND, MHz<br>(loss < 1dB) | STOP BANDS               |                          | VSWR, 1.3:1, Typ.<br>TOTAL BAND, MHz | CASE STYLE<br>Note B | CONNECTION | PRICE \$<br>(note 2a)<br>Qty. (1-9) |
|-----------|------------------|-------------------------------|--------------------------|--------------------------|--------------------------------------|----------------------|------------|-------------------------------------|
|           |                  |                               | (loss < 10 dB)<br>at MHz | (loss > 20 dB)<br>at MHz |                                      |                      |            |                                     |
| _IF-21.4  | 21.4             | 18-25                         | 4.9 & 85                 | 1.3 & 150                | DC-220                               | ▽                    | cs         | 14.95                               |
| _IF-30    | 30               | 25-35                         | 7 & 120                  | 1.9 & 210                | DC-330                               | ▽                    | cs         | 14.95                               |
| _IF-40    | 42               | 35-49                         | 10 & 168                 | 2.6 & 300                | DC-400                               | ▽                    | cs         | 14.95                               |
| _IF-50    | 50               | 41-58                         | 11.5 & 200               | 3.1 & 350                | DC-440                               | ▽                    | cs         | 14.95                               |
| _IF-60    | 60               | 50-70                         | 14 & 240                 | 3.8 & 400                | DC-500                               | ▽                    | cs         | 14.95                               |
| _IF-70    | 70               | 58-82                         | 16 & 280                 | 4.4 & 490                | DC-550                               | ▽                    | cs         | 14.95                               |

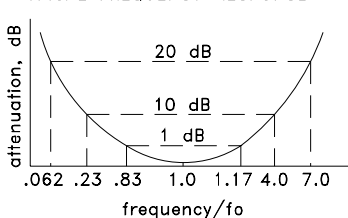
For connector selection, add prefix letter P, B, N or S to \_IF where applicable (see note 2)

#### elliptic response

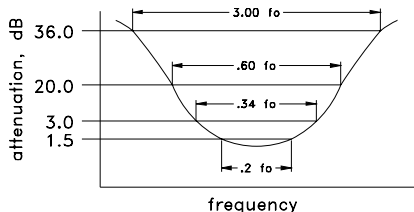
| MODEL NO. | CENTER FREQ. MHz | PASSBAND, MHz<br>I.L. 1.5 dB<br>Max. MHz | 3 dB BANDWIDTH<br>Typical MHz | STOP BANDS                  |                             | PASSBAND<br>VSWR<br>Max. | STOP BAND<br>VSWR<br>Typ. | CASE STYLE<br>Note B | CONNECTION | PRICE \$<br>(note 2b)<br>Qty. (1-9) |
|-----------|------------------|------------------------------------------|-------------------------------|-----------------------------|-----------------------------|--------------------------|---------------------------|----------------------|------------|-------------------------------------|
|           |                  |                                          |                               | (l. loss > 20 dB)<br>at MHz | (l. loss > 35 dB)<br>at MHz |                          |                           |                      |            |                                     |
| _BP-10.7  | 10.7             | 9.5-11.5                                 | 8.9-12.7                      | 7.5 & 15                    | 0.6 & 50-1000               | 1.7:1                    | 16:1                      | ▽                    | cr         | 18.95                               |
| _BP-21.4  | 21.4             | 19.2-23.6                                | 17.9-25.3                     | 15.5 & 29                   | 3.0 & 80-1000               | 1.7:1                    | 16:1                      | ▽                    | cr         | 18.95                               |
| _BP-30    | 30               | 27.0-33.0                                | 25-35                         | 22 & 40                     | 3.2 & 99-1000               | 1.7:1                    | 16:1                      | ▽                    | cr         | 18.95                               |
| _BP-60    | 60               | 55.0-67.0                                | 49.8-70.5                     | 44 & 79                     | 4.6 & 190-1000              | 1.7:1                    | 16:1                      | ▽                    | cr         | 18.95                               |
| _BP-70    | 70               | 63.0-77.0                                | 58.0-82.0                     | 51 & 94                     | 6.0 & 193-1000              | 1.7:1                    | 16:1                      | ▽                    | cr         | 18.95                               |

For connector selection, add prefix letter P, B, N or S to \_BP where applicable (see note 2)

BANDPASS, CONSTANT IMPEDANCE  
TYPICAL FREQUENCY RESPONSE



BANDPASS, ELLIPTICAL  
TYPICAL FREQUENCY RESPONSE



NSN GUIDE  
MCL NO.  
SIF-30

NSN  
5915-01-464-8971

## Low Pass, Flat Time Delay DC to 1.87 GHz

BBLP  
BIF  
BBP



SBLP  
SIF  
SBP



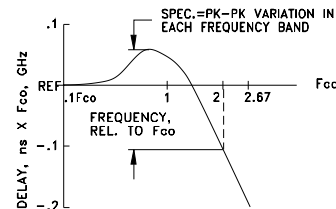
| MODEL NO.   | PASSBAND, MHz        | fco, MHz        | STOP BAND, MHz |              | VSWR      |           | GROUP DELAY VARIATION, ns |         |            | CASE STYLE | CONNECTION | PRICE \$ (note 2c) |
|-------------|----------------------|-----------------|----------------|--------------|-----------|-----------|---------------------------|---------|------------|------------|------------|--------------------|
|             | (loss < 1.2 dB) Min. | (loss 3dB) Nom. | loss > 10 dB   | loss > 20 dB | DC-0.2fco | DC-0.6fco | DC-fco                    | DC-2fco | DC-2.67fco | Note B     |            |                    |
| _BLP-39     | DC-23                | 39              | 78-117         | 117          | 1.3:1     | 2.3:1     | 0.70                      | 4.0     | 5.00       | ▽          | cr         | 19.95              |
| _BLP-117    | DC-65                | 117             | 234-312        | 312          | 1.3:1     | 2.4:1     | 0.35                      | 1.4     | 1.90       | ▽          | cr         | 19.95              |
| _BLP-156    | DC-94                | 156             | 312-416        | 416          | 1.3:1     | 1.1:1     | 0.30                      | 1.1     | 1.50       | ▽          | cr         | 19.95              |
| _BLP-200    | DC-120               | 200             | 400-534        | 534          | 1.6:1     | 1.9:1     | 0.40                      | 1.3     | 1.60       | ▽          | cr         | 19.95              |
| _BLP-300    | DC-180               | 300             | 600-801        | 801          | 1.25:1    | 2.2:1     | 0.20                      | 0.6     | 0.80       | ▽          | cr         | 19.95              |
| _BLP-467    | DC-280               | 467             | 934-1246       | 1246         | 1.25:1    | 2.2:1     | 0.15                      | 0.4     | 0.55       | ▽          | cr         | 19.95              |
| ▼ _BLP-933  | DC-560               | 933             | 1866-2490      | 2490         | 2.2:1     | 2.2:1     | 0.09                      | 0.2     | 0.28       | ▽          | —          | 38.95              |
| ▼ _BLP-1870 | DC-850               | 1870            | 3740-5000      | 5000         | 1.45:1    | 2.9:1     | 0.05                      | 0.1     | 0.15       | ▽          | —          | 38.95              |

For connector selection, add prefix letter P, B, N, or S to \_BLP where applicable (see note 2)

### features

- Flat group delay for low pulse distortion.
- Delay and selectivity are both controlled by design.
- Wide selection of cutoff frequencies, 48-to-1 range. Custom Fco values are available.
- Choice of pin package or connectorized models.

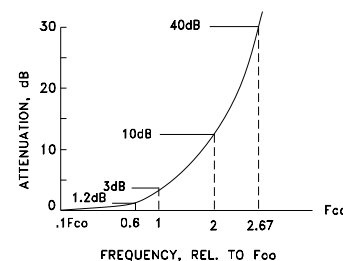
TYPICAL GROUP DELAY



### NOTES:

- \* Connection for plug-in models (PIF, PBP, PBLP)
- ▼ \_BLP-933 AND \_BLP-1870 available only with N and SMA connectors.
- ▽ Four different case styles available:  
For plug-in models, case style A01  
SMA connector models, case style FF99  
BNC connector models, case style FF55  
N-type connector models, case style FF57
- A. General Quality Control Procedures, Environmental Specifications, Hi-Rel and MIL description are given in section 0, see "Mini-Circuits Guarantees Quality" article.
- B. Connector types and case mounted options, case finishes are given in section 0, see "Case styles & outline drawings".
- C. Prices and specifications subject to change without notice.
- 1. Absolute maximum power, voltage and current rating:  
1a. RF power, 0.5 Watt
- 2. 2a. Price for PIF-series only, SIF \$38.95, BIF \$36.95, NIF \$39.95  
2b. Price for PBP-series only, SBP \$42.95, BBP \$40.95, NBP \$43.95  
2c. Price for PBLP-series only, SBLP \$38.95, BBLP \$36.95, NBLP \$39.95
- 3. Models are available with male/ female coax connectors, for other configurations and inter-series versions consult factory. See section 0, case styles and outline drawings.
- 4. All filters, except pin units (PIF, PBP and PBLP), are non-hermetic.

TYPICAL FREQUENCY RESPONSE  
INSERTION LOSS



### pin connections

see case style outline drawings

| PORT   | cr          | cs          |
|--------|-------------|-------------|
| INPUT  | 1           | 1           |
| OUTPUT | 8           | 6           |
| GND    | 2,3,4,5,6,7 | 2,3,4,5,7,8 |