

Plug-In Low Pass Filter

PBLP-200+ PBLP-200

50Ω Flat Time Delay DC to 120 MHz

Maximum Ratings

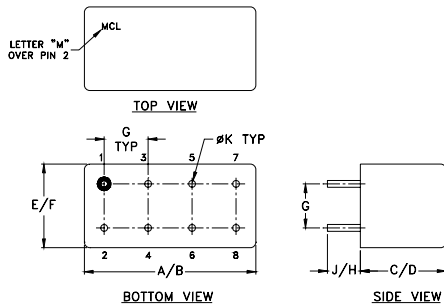
| | |
|-----------------------|----------------|
| Operating Temperature | -55°C to 100°C |
| Storage Temperature | -55°C to 100°C |
| RF Power Input | 0.5W max. |

Permanent damage may occur if any of these limits are exceeded.

Pin Connections

| | |
|-------------|-------------|
| INPUT | 1 |
| OUTPUT | 8 |
| GROUND | 2,3,4,5,6,7 |
| CASE GROUND | 2,3,4,5,6,7 |

Outline Drawing



Outline Dimensions (inch/mm)

| | | | | | |
|-------|-------|------|-------|------|-------|
| A | B | C | D | E | F |
| .770 | .800 | .385 | .400 | .370 | .400 |
| 19.56 | 20.32 | 9.78 | 10.16 | 9.40 | 10.16 |
| G | H | J | K | | wt |
| .200 | .20 | .14 | .031 | | grams |
| 5.08 | 5.08 | 3.56 | 0.79 | | 5.2 |

Features

- flat group delay for low pulse distortion
- rugged shielded case, hermetic
- other PBLP models available with wide selection of cut-off frequencies

Applications

- linear modulation techniques
- voice transmission applications
- digital communications



CASE STYLE: A01
PRICE: \$22.20 ea. QTY: 1-9

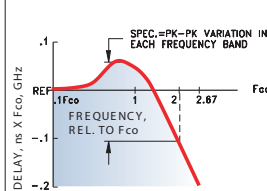
+ RoHS compliant in accordance with EU Directive (2002/95/EC)

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

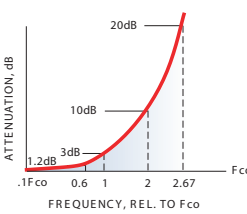
Low Pass Filter Electrical Specifications

| PASSBAND (MHz) (loss <1.2 dB) Min. | fco, MHz Nom. (loss 3 dB) | STOPBAND (MHz) | | VSWR (:1) | | GROUP DELAY VARIATION (nsec) | | |
|--|---------------------------------|----------------|----------------|----------------|----------------|------------------------------|--------------|-----------------|
| | | (loss > 10 dB) | (loss > 20 dB) | DC-0.2fco X | DC-0.6fco X | DC-fco X | DC-2fco X | DC-2.67fco X |
| DC-120 | 200 | 400-534 | 534 | 1.6:1 | 1.9:1 | 0.4 | 1.3 | 1.6 |

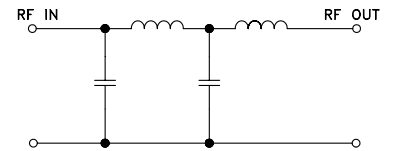
TYPICAL GROUP DELAY



TYPICAL FREQUENCY RESPONSE INSERTION LOSS

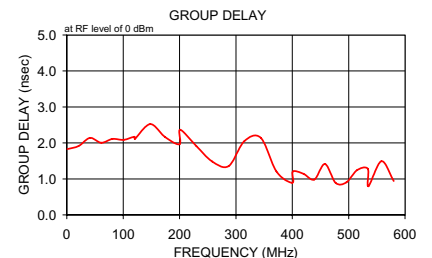
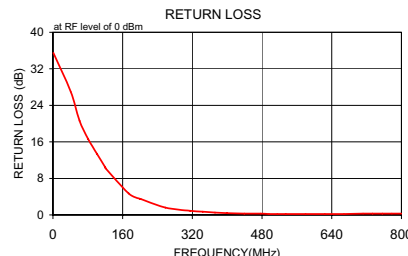
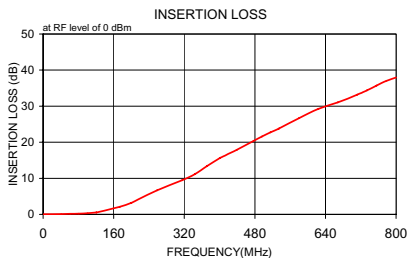


electrical schematic



Typical Performance Data

| Frequency (MHz) | Insertion Loss (dB) | | Return Loss (dB) | Frequency (MHz) | Group Delay (nsec) |
|-----------------|---------------------|----------|------------------|-----------------|--------------------|
| | \bar{x} | σ | | | |
| 1.0 | 0.04 | 0.1 | 35.5 | 1.0 | 1.829 |
| 41.0 | 0.10 | 0.1 | 27.0 | 21.0 | 1.915 |
| 61.0 | 0.16 | 0.1 | 20.6 | 41.0 | 2.140 |
| 81.0 | 0.22 | 0.1 | 16.6 | 61.0 | 2.006 |
| 101.0 | 0.33 | 0.1 | 13.4 | 81.0 | 2.109 |
| 120.0 | 0.52 | 0.1 | 10.4 | 101.0 | 2.087 |
| 121.0 | 0.53 | 0.1 | 10.2 | 120.0 | 2.170 |
| 174.0 | 2.10 | 0.1 | 4.7 | 121.0 | 2.113 |
| 200.0 | 3.22 | 0.1 | 3.5 | 148.0 | 2.521 |
| 201.0 | 3.26 | 0.1 | 3.5 | 174.0 | 2.169 |
| 258.0 | 6.65 | 0.2 | 1.6 | 200.0 | 1.964 |
| 315.0 | 9.45 | 0.2 | 0.9 | 201.0 | 2.367 |
| 344.0 | 11.17 | 0.3 | 0.7 | 230.0 | 1.912 |
| 372.0 | 13.45 | 0.4 | 0.5 | 258.0 | 1.485 |
| 400.0 | 15.58 | 0.5 | 0.4 | 287.0 | 1.356 |
| 401.0 | 15.65 | 0.5 | 0.4 | 315.0 | 2.048 |
| 439.0 | 17.90 | 0.7 | 0.3 | 344.0 | 2.142 |
| 477.0 | 20.36 | 0.8 | 0.3 | 372.0 | 1.206 |
| 496.0 | 21.60 | 0.8 | 0.2 | 400.0 | 0.894 |
| 515.0 | 22.72 | 0.9 | 0.2 | 401.0 | 1.205 |
| 534.0 | 23.75 | 0.9 | 0.2 | 420.0 | 1.143 |
| 535.0 | 23.81 | 0.9 | 0.2 | 439.0 | 0.984 |
| 580.0 | 26.67 | 1.0 | 0.2 | 458.0 | 1.412 |
| 624.0 | 29.26 | 1.0 | 0.2 | 477.0 | 0.888 |
| 668.0 | 31.05 | 1.1 | 0.2 | 496.0 | 0.903 |
| 712.0 | 33.19 | 1.2 | 0.3 | 515.0 | 1.244 |
| 734.0 | 34.36 | 1.2 | 0.3 | 534.0 | 1.282 |
| 756.0 | 35.72 | 1.2 | 0.3 | 535.0 | 0.796 |
| 778.0 | 37.00 | 1.2 | 0.3 | 558.0 | 1.491 |
| 800.0 | 37.94 | 1.1 | 0.3 | 580.0 | 0.941 |



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