

Plug-In Low Pass Filter

PLP-600-75+

75Ω DC to 580 MHz

Maximum Ratings

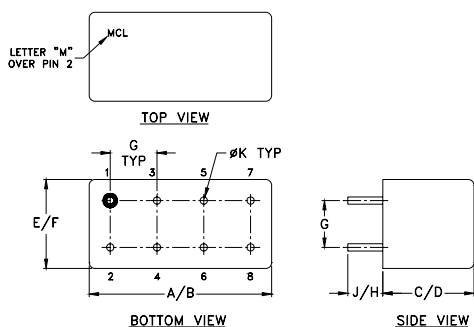
| | |
|-----------------------|----------------|
| Operating Temperature | -55°C to 100°C |
| Storage Temperature | -55°C to 100°C |
| RF Power Input | 0.5W max. |

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

- rugged welded case, hermetic
- other standard and custom PLP models available with wide selection of fco

Applications

- test equipment
- lab use
- transmitters/receivers
- military/hi-rel applications



Generic photo used for illustration purposes only

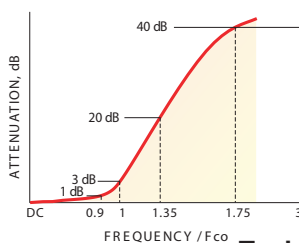
CASE STYLE: A01

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

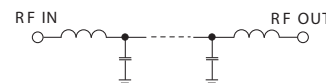
Low Pass Filter Electrical Specifications

| PASSBAND (MHz) | fco (MHz) Nom. | STOPBAND (MHz) | | VSWR (:1) | |
|----------------|----------------|----------------|----------------|---------------|---------------|
| | | (loss > 20 dB) | (loss > 40 dB) | Passband Typ. | Stopband Typ. |
| DC-580 | 640 | 840-1120 | 1120-2000 | 1.7 | 18 |

typical frequency response

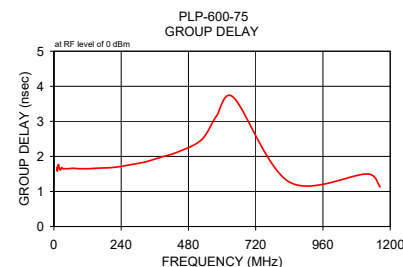
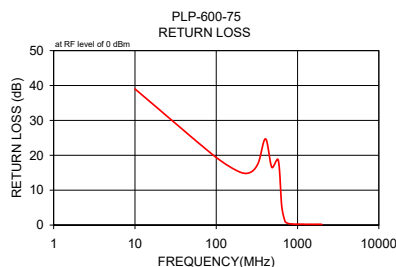
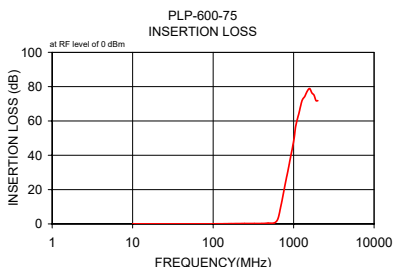


electrical schematic



Typical Performance Data

| Frequency (MHz) | Insertion Loss (dB) | | Return Loss (dB) | Frequency (MHz) | Group Delay (nsec) |
|-----------------|---------------------|----------|------------------|-----------------|--------------------|
| | \bar{x} | σ | | | |
| 10.00 | 0.03 | 0.01 | 39.03 | 10.00 | 1.68 |
| 88.80 | 0.06 | 0.02 | 20.33 | 11.91 | 1.58 |
| 167.50 | 0.17 | 0.03 | 15.95 | 14.07 | 1.73 |
| 246.30 | 0.23 | 0.02 | 14.87 | 16.62 | 1.77 |
| 325.00 | 0.24 | 0.02 | 17.52 | 19.64 | 1.66 |
| 403.80 | 0.23 | 0.04 | 24.71 | 23.20 | 1.61 |
| 482.50 | 0.45 | 0.10 | 16.54 | 27.40 | 1.68 |
| 580.00 | 0.67 | 0.11 | 18.62 | 32.00 | 1.65 |
| 640.00 | 3.15 | 1.32 | 5.36 | 38.24 | 1.65 |
| 700.00 | 11.10 | 2.40 | 1.10 | 45.17 | 1.65 |
| 728.00 | 15.12 | 2.59 | 0.69 | 53.36 | 1.65 |
| 756.00 | 19.01 | 2.76 | 0.52 | 63.04 | 1.66 |
| 784.00 | 22.88 | 2.93 | 0.40 | 74.46 | 1.66 |
| 812.00 | 26.53 | 3.06 | 0.34 | 87.96 | 1.65 |
| 840.00 | 29.84 | 3.26 | 0.32 | 103.91 | 1.65 |
| 868.00 | 33.13 | 3.50 | 0.28 | 122.75 | 1.65 |
| 918.40 | 39.24 | 4.03 | 0.25 | 145.00 | 1.66 |
| 968.80 | 44.53 | 4.60 | 0.23 | 171.29 | 1.67 |
| 1019.20 | 50.42 | 5.97 | 0.22 | 202.35 | 1.68 |
| 1059.60 | 56.66 | 9.07 | 0.22 | 235.74 | 1.71 |
| 1120.00 | 61.58 | 9.70 | 0.22 | 278.48 | 1.77 |
| 1170.00 | 64.81 | 7.30 | 0.22 | 324.43 | 1.84 |
| 1273.80 | 71.86 | 7.17 | 0.21 | 383.24 | 1.98 |
| 1377.50 | 74.32 | 4.38 | 0.21 | 446.48 | 2.14 |
| 1481.30 | 77.46 | 5.00 | 0.21 | 527.43 | 2.48 |
| 1585.00 | 78.86 | 4.18 | 0.21 | 580.00 | 3.15 |
| 1688.80 | 76.30 | 5.08 | 0.21 | 640.00 | 3.69 |
| 1792.50 | 75.09 | 5.40 | 0.20 | 840.00 | 1.27 |
| 1896.30 | 71.89 | 4.47 | 0.20 | 1120.00 | 1.50 |
| 2000.00 | 71.83 | 6.46 | 0.19 | 1163.76 | 1.13 |



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.
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