

**75Ω DC to 98 MHz**
**Maximum Ratings**

Operating Temperature -55°C to 100°C

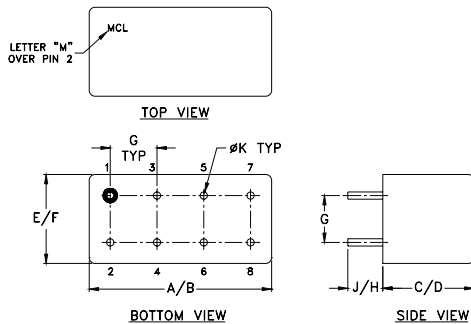
Storage Temperature -55°C to 100°C

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)**

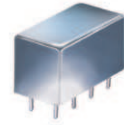
| A     | B     | C    | D     | E     | F     |
|-------|-------|------|-------|-------|-------|
| .770  | .800  | .385 | .400  | .370  | .400  |
| 19.56 | 20.32 | 9.78 | 10.16 | 9.40  | 10.16 |
| G     | H     | J    | K     | wt    |       |
| .200  | .20   | .14  | .031  | grams |       |
| 5.08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



CASE STYLE: A01

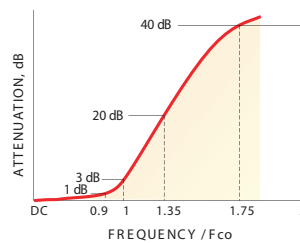
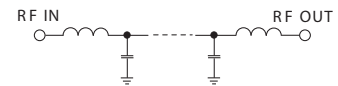
PRICE: \$15.20 ea. QTY (1-9)

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

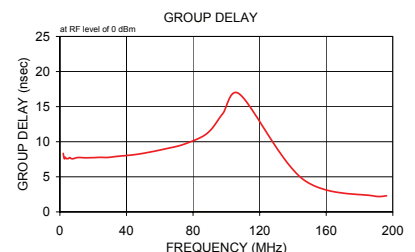
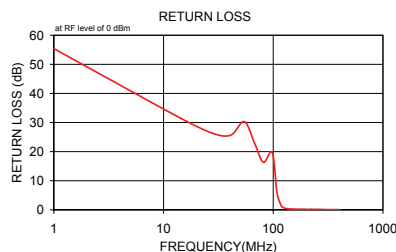
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

**Low Pass Filter Electrical Specifications**

| PASSBAND (MHz) | fco (MHz) Nom. | STOPBAND (MHz)                | VSWR (:1)                   |
|----------------|----------------|-------------------------------|-----------------------------|
| (loss < 1 dB)  | (loss 3 dB)    | (loss > 20 dB) (loss > 40 dB) | Passband Typ. Stopband Typ. |
| DC-98          | 108            | 146-189 189-400               | 1.7 18                      |

**typical frequency response**

**electrical schematic**

**Typical Performance Data**

| Frequency (MHz) | Insertion Loss (dB) | Return Loss (dB) | Frequency (MHz) | Group Delay (nsec) |
|-----------------|---------------------|------------------|-----------------|--------------------|
|                 | $\bar{x}$           | $\sigma$         |                 |                    |
| 1.00            | 1.00                | 0.00             | 2.00            | 8.34               |
| 14.40           | 0.09                | 0.00             | 2.34            | 7.84               |
| 27.80           | 0.14                | 0.00             | 2.73            | 7.56               |
| 41.10           | 0.18                | 0.01             | 3.19            | 7.79               |
| 54.50           | 0.22                | 0.01             | 3.72            | 7.62               |
| 67.90           | 0.29                | 0.01             | 4.34            | 7.59               |
| 81.30           | 0.45                | 0.04             | 5.07            | 7.61               |
| 98.00           | 0.62                | 0.07             | 5.91            | 7.74               |
| 108.00          | 2.25                | 0.40             | 6.90            | 7.59               |
| 118.00          | 7.71                | 0.73             | 8.05            | 7.58               |
| 123.60          | 11.47               | 0.75             | 9.39            | 7.69               |
| 129.20          | 15.15               | 0.72             | 10.96           | 7.75               |
| 134.80          | 18.64               | 0.71             | 12.94           | 7.74               |
| 140.40          | 21.90               | 0.69             | 15.10           | 7.71               |
| 146.00          | 24.97               | 0.68             | 17.83           | 7.72               |
| 151.60          | 27.86               | 0.69             | 20.81           | 7.74               |
| 159.10          | 31.52               | 0.70             | 24.57           | 7.77               |
| 166.60          | 34.94               | 0.73             | 28.67           | 7.76               |
| 174.00          | 38.15               | 0.75             | 33.85           | 7.90               |
| 181.50          | 41.21               | 0.85             | 39.50           | 8.02               |
| 189.00          | 44.21               | 0.98             | 46.64           | 8.21               |
| 196.50          | 47.04               | 1.03             | 54.43           | 8.54               |
| 221.90          | 56.41               | 1.79             | 64.27           | 9.03               |
| 247.40          | 67.24               | 4.43             | 75.00           | 9.68               |
| 272.80          | 77.49               | 6.61             | 88.56           | 11.21              |
| 298.30          | 75.88               | 6.64             | 98.00           | 14.05              |
| 323.70          | 73.99               | 6.37             | 108.00          | 16.77              |
| 349.10          | 71.06               | 5.19             | 146.00          | 4.66               |
| 374.60          | 69.94               | 3.57             | 189.00          | 2.25               |
| 403.00          | 65.59               | 2.49             | 196.20          | 2.29               |



**Mini-Circuits®**  
ISO 9001 ISO 14001 AS 9100 CERTIFIED

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IF/RF MICROWAVE COMPONENTS

For detailed performance specs & shopping online see web site

**Notes:** 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at [www.minicircuits.com/MCLStore/terms.jsp](http://www.minicircuits.com/MCLStore/terms.jsp).

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