Multi-purpose Medical Filter for Power Line Noise Protection

MV Series

- Multi-purpose medical filter
- Improved Line to Ground performance
- A good solution to emission or immunity problems
- Meets leakage current requirements of UL2601 for health care equipment

Specifications

Maximum leakage current each Line to Ground:
@ 120 VAC 60 Hz: 0.07 mA
@250 VAC 50 Hz: 0.13 mA

Hipot rating (one minute):
Line to Ground: 2250 VDC
Line to Line: 1450 VDC

Rated Voltage (max): 250 VAC
Operating Frequency: 50/60 Hz
Rated Current: 3 to 20A

Operating Ambient Temperature Range
(at rated current I_r): -10°C to +40°C
In an ambient temperature (T_a) higher than +40°C the maximum operating current (I_o) is calculated as follows:

\[ I_o = I_r \times \frac{(85-T_a)}{45} \]

Ordering Information

6 MV 1
Input / Output Style
1 - 0.250 [6.3] spade terminals
MV Series
Current Rating
3, 6, 10 or 20A

Available Part Numbers

<table>
<thead>
<tr>
<th>Part</th>
<th>3MV1</th>
<th>6MV1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current Rating</td>
<td>10MV1</td>
<td>20MV1</td>
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</table>

Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change.

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Multi-purpose Medical Filter for Power Line Noise Protection (continued)

**MV Series**

**Case Styles**

**MV1** (3, 6, 10A)

Typical Dimensions:
- Line/Load Terminals (4): .250 [6.3] with .07 [.18] Dia. hole

**Performance Data**

**Typical Insertion Loss**

Measured in closed 50 Ohm system

**Minimum Insertion Loss**

Measured in closed 50 Ohm system

**Part No.** | **A** (max) | **B** (max) | **C** (max) | **D** ±.015 | **E** (max)
---|---|---|---|---|---
**3MV1** | 3.36 | 1.82 | 1.28 | 2.375 | 2.78
| 85.3 | 46.2 | 32.5 | 60.33 | 70.6

**6MV1** | 3.86 | 2.08 | 1.53 | 2.938 | 3.34
| 98.0 | 52.8 | 38.9 | 74.63 | 84.8

**10MV1** | 3.86 | 2.08 | 1.53 | 2.938 | 3.34
| 98.0 | 52.8 | 38.9 | 74.63 | 84.8

**20MV1** | 5.23 | 3.38 | 1.53 | 3.75 | 4.20
| 132.8 | 85.9 | 38.9 | 95.25 | 106.7

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