Highest Performance RFI Filters for Medical Equipment

**HQ Series**

- Designed to provide the highest available attenuation of RFI noise in the frequency range from 10kHz to 30MHz for low leakage current applications
- Size and cost-effective

**Specifications**

- **Maximum leakage current each Line to Ground:**
  - @ 120 VAC 60 Hz: 2 \( \mu \text{A} \)
  - @250 VAC 50 Hz: 5 \( \mu \text{A} \)

- **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 & 6A

- **Operating Ambient Temperature Range** (at rated current \( I_r \)):
  - \(-10^\circ\text{C} \) to \(+40^\circ\text{C}\)
  - In an ambient temperature \( T_o \) higher than \(+40^\circ\text{C}\)
    the maximum operating current \( I_o \) is calculated as follows:
    \[ I_o = I_r \sqrt{(85-T_o)/45} \]

**Available Part Numbers**

<table>
<thead>
<tr>
<th>HQ Series</th>
<th>3EHQ1</th>
<th>6EHQ1</th>
</tr>
</thead>
<tbody>
<tr>
<td>3EHQ3</td>
<td>3EHQ8</td>
<td></td>
</tr>
<tr>
<td>3EHQ8M</td>
<td>3EHQ8M</td>
<td></td>
</tr>
</tbody>
</table>

**Accessories**

- **GA400:** NEMA 5-15P to IEC 60320-1 C-13 line cord

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**Ordering Information**

- **Suffix**
  - M – Metric inserts (style 8 only)
  - Omit for standard or none

- **Input / Output Style**
  - 1 – .250 [6.3] spade terminals
  - 3 – Wire leads
  - 8 – IEC inlet* (line side)
  - Wire leads (load side)

- **HQ Series**

- **Leakage current designation**
  - E – Low leakage (<0.5 mA)

- **Current Rating**
  - 3 or 6A

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*IEC 60320-1 C14 inlet mates with C13 connector

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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.
HQ Series

**Electrical Schematics**

**3EHQ**

```
LINE                  LOAD
```

**6EHQ**

```
LINE                  LOAD
```

**Case Styles**

**HQ1**

Type of Dimensions:
- Ground Terminal (1): .350 [8.9] with .07 x .16 [1.8 x 3.8] slot

**3EHQ8 & 3EHQ8M**

```
D B
```

**6EHQ8 & 6EHQ8M**

```
E A
```

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HQ Series

Recommended Panel Cutout

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Performance Data

Typical Insertion Loss
Measured in closed 50 Ohm system

Minimum Insertion Loss
Measured in closed 50 Ohm system

Case Dimensions

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A (max)</th>
<th>B (max)</th>
<th>C (max)</th>
<th>± .015 (max)</th>
<th>E (max)</th>
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<tbody>
<tr>
<td>3EHQ1</td>
<td>3.85</td>
<td>2.07</td>
<td>1.78</td>
<td>2.938</td>
<td>3.34</td>
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<tr>
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<td>2.07</td>
<td>1.78</td>
<td>2.938</td>
<td>3.34</td>
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<td>3EHQ8,</td>
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<td>1.78</td>
<td>1.575</td>
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<td>3EHQ8M</td>
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<td>45.2</td>
<td>1.01</td>
<td>16.0</td>
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<td>6EHQ1</td>
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<td>1.8</td>
<td>4.063</td>
<td>4.47</td>
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<tr>
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<td>2.27</td>
<td>1.8</td>
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<td>6EHQ8,</td>
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<td>2.07</td>
<td>1.78</td>
<td>1.575</td>
<td>2.7*</td>
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<tr>
<td>6EHQ8M</td>
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<td>52.6</td>
<td>45.2</td>
<td>40.01</td>
<td>68.6*</td>
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</tbody>
</table>

*±0.02 [0.5]

Differential Mode / Symmetrical (Line to Line)

Common Mode / Asymmetrical (Line to Ground)

Differential Mode / Symmetrical (Line to Line)

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