Intelligent Capacitor Solutions

Defibrillator Capacitors

FILM CAPACITORS FOR EXTERNAL DEFIBRILLATOR APPLICATIONS

RoHS COMPLIANT

Intelligent Capacitor Solutions
Reliability and high level performance position Aerovox as the industry leader in film capacitors for external defibrillator applications. Aerovox’s defibrillator capacitors are designed with extensive process validation and manufactured under a rigorous quality management system to provide high reliability, long life and complete traceability. Their small size makes them ideally suited for use in hospital, emergency room, first responder and public access defibrillators.

If your product or application requires a specialized capacitor, our expert Custom Applications Group engineers are ready to assist you.
Aerovox defibrillator capacitors are designed specifically to meet the reliability demands of a Class III medical device. In fact, leading medical device manufacturers choose Aerovox because they can count on 100% field reliability when it really matters.

These capacitors are housed in round or oval metal, oil-filled cases; or in a dry, epoxy-filled plastic housing version. Plastic cases offer excellent design flexibility, and can be customized to specific requirements. They are available in voltage ranges from 800 VDC to 6,000 VDC, delivering in excess of 500 joules at full charge.

Applications
• External Defibrillator
• Pulse Power Applications

Highlights
• Aluminum, steel or plastic case options
• Round and oval designs
• Available with wire harness
• High energy density
• Monophasic or bi-phasic designs
• Custom designs available
• RoHS compliant

Specifications
Capacitance Range: 32 to 500 µF
Capacitance Tolerance: ±5% Standard
DC Voltage Range: 800 VDC to 6,000 VDC
Defibrillator Capacitors

Film Capacitors for External Defibrillator Applications

Part Numbering System
Aerovox’s part numbering system is a descriptive part number made up of several different components such as case style, voltage rating, etc. The descriptors are explained using QL232EW120V as a representative part number:

- **Q** = MPP (Hp)
- **L** = Oval, metal
- **232** = 2200 VDC
- **E** = exact DC volt and cap
- **W120** = 120 µF
- **V** = Vegetable Oil

**CASE STYLE**
- L = Oval, metal
- R = Round, metal
- V = Oval, plastic
- S = Round, plastic

**VOLTAGE RATING**
- 222 = 2200 VDC
- 232 = 2300 VDC
- 252 = 2500 VDC
- 422 = 4200 VDC
- 502 = 5000 VDC
- 602 = 6000 VDC

**CAPACITANCE CODE**
- W032 = 32 µF
- W048 = 48 µF
- W090 = 90 µF
- W105 = 105 µF
- W120 = 120 µF
- W195 = 195 µF
- W240 = 240 µF

**CAPACITOR FILL**
- V = Vegetable Oil
- N = Dry (epoxy)

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### Part Numbering System Table

<table>
<thead>
<tr>
<th>CAP (µF)</th>
<th>AEROVOX P/N</th>
<th>VOLTAGE RATING (VDC)</th>
<th>JOULES (J)</th>
<th>STYLE (FILL)</th>
<th>SIZE W x L x H OR D x H</th>
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</thead>
<tbody>
<tr>
<td>120</td>
<td>QL232EW120V</td>
<td>2300</td>
<td>317</td>
<td>Oval, Metal (Oil)</td>
<td>1.91 x 2.91 x 3.75</td>
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<td>QL422YW048V</td>
<td>4200</td>
<td>423</td>
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<td>QL232EW195V</td>
<td>2300</td>
<td>516</td>
<td>Oval, Metal (Oil)</td>
<td>1.91 x 2.91 x 5.75</td>
</tr>
<tr>
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<td>QV232EW195N</td>
<td>2300</td>
<td>516</td>
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<tr>
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<td>2200</td>
<td>472</td>
<td>Round, Plastic (Dry)</td>
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<tr>
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<td>2300</td>
<td>516</td>
<td>Round, Metal (Oil)</td>
<td>2.38 x 5.60</td>
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</tbody>
</table>

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### About Aerovox

Aerovox is a leading manufacturer of capacitors for industrial, medical and specialized applications, with world-class design, manufacturing and testing facilities in New Bedford, MA. Global manufacturing facilities in China and India enable quick turn-around for shipping and delivery worldwide.

Aerovox capacitors are among the world’s most reliable components. Our extensive custom design and development capabilities coupled with broad, standardized product offerings allow us to provide intelligent capacitor solutions that meet or exceed customers' application requirements.

Our aim is to be the best and most sought after provider of capacitor solutions for specialty markets in the world by achieving the highest level of customer satisfaction with extraordinary emphasis on the creation of value and speed to market.