Technical Data Sheet

Electrical Specifications

Capacitance/Tolerance: 425 µF, ±10%

DC Voltage Rating: 900 VDC

Dielectric/Construction: Metallized Polypropylene film. Single section design

Dielectric Withstand Voltage: Units 100% tested at a DC potential of 1125 Volts for two minutes at +25°C

ESR vs. Frequency:
Electrical Specifications (cont’d)

ESL: Less than 5 nH in a suitable laminar bus structure

Thermal resistance:
- 0.92°C/W (case side cooling only)
- 0.44°C/W (case and bus side cooling)

Operating Temperature: -40°C to +85°C at full DC voltage rating

Voltage, Temperature De-rating: De-rate voltage linearly to 700 Volts from +85°C to +107°C, with respect to hotspot temperature

System Fault Current Rating: 10,000 Amps maximum (external to the capacitor)

RMS Current Rating:
Mechanical Specifications

**Dimensions:** See Layout Drawing below for details.

**Terminals:** Tin plated copper, 0.032" thick

**Encapsulation:** Molded polymeric case potted with RTV silicone

**Marking:**

<table>
<thead>
<tr>
<th>SBE</th>
<th>SBE Company Identification</th>
</tr>
</thead>
<tbody>
<tr>
<td>700D407</td>
<td>Unique SBE Part Number</td>
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<tr>
<td>425 µF ±10%</td>
<td>Capacitance value and Tolerance</td>
</tr>
<tr>
<td>900 VDC</td>
<td>DC Voltage Rating</td>
</tr>
<tr>
<td>yyww-lot#-unit</td>
<td>Serial Number (date code, lot number, unit number)</td>
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**NOTES:**

1. All Hole Positions Inspected
2. All Dimensions Inspected Unless Marked As Reference

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**Revisions**

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