### Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacitance</td>
<td>Rated: 800F</td>
</tr>
<tr>
<td></td>
<td>Minimum initial: 800F</td>
</tr>
<tr>
<td>Voltage</td>
<td>Nominal: 3.8V DC</td>
</tr>
<tr>
<td></td>
<td>Minimum: 2.2V DC</td>
</tr>
<tr>
<td></td>
<td>Maximum: 4.2V DC</td>
</tr>
<tr>
<td>ESR</td>
<td>Typical: 12mΩ</td>
</tr>
<tr>
<td></td>
<td>Maximum initial: 15mΩ</td>
</tr>
<tr>
<td>Current</td>
<td>Maximum continuous current (ΔT= 15℃) ≤ 25 RMS</td>
</tr>
<tr>
<td></td>
<td>Maximum continuous current (ΔT= 40℃) ≤ 60 RMS</td>
</tr>
<tr>
<td>Energy Storage</td>
<td>Max energy: 1.6Wh</td>
</tr>
<tr>
<td></td>
<td>Usable energy: 1.1Wh</td>
</tr>
<tr>
<td></td>
<td>Volumetric energy density: 18.3Wh/liter</td>
</tr>
<tr>
<td></td>
<td>Gravametric energy density: 9.3Wh/kg</td>
</tr>
<tr>
<td>Self Discharge</td>
<td>Voltage drop after 3 months at 25℃ ≤ 15%</td>
</tr>
</tbody>
</table>

### Temperature

- Operating Temperature Range: -10℃ to +65℃
- Storage Temperature Range: -10℃ to +70℃

### Standards, Safety & Environmental

- Short Circuit Current: 253A
- Safety:
  - This product may vent or rupture if overcharged, reverse charged, incinerated or heated above 100℃
  - Do not crush, mutilate, or disassemble
  - Do not dispose of unit in trash

### Service Lifetime

- Product held at nominal voltage in 65℃ environment for 2000 hours:
  - Change in capacitance (% drop from rated): ≤20%
  - Change in ESR (% increase from maximum initial): ≤100%

- Product held at rated voltage in 25℃ environment:
  - Life (projected): 10+ years
  - Change in capacitance (% drop from rated): ≤20%
  - Change in ESR (% increase from maximum initial): ≤100%

- Cycling from $V_{nom}$ to $V_{min}$ under constant current in 25℃ environment:
  - Life (projected): >1M cycles
  - Change in capacitance (% drop from rated): ≤20%
  - Change in ESR (% increase from maximum initial): ≤100%

- Stored uncharged in original packaging in 25℃ environment:
  - Life: 4 years

### Physical Characteristics

- Mechanical:
  - Vibration: IEC60068-2-6, SAE J380
  - Shock: IEC60068-2-27, SAE J2464

### Applications

- Start-up Power supply
- Industrial Backup Power
- Energy Harvesting
- Remote Power Supply
- Peak Load Shaving

### Features & Advantages

- 1M Cycles Lifetime
- 10 Years Calendar Life
- Low Self-Discharge
- Safe: No Thermal Runaway
- High Power Density
**Outline Drawings:**

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**Weight and Size:**

**Weight:** 115g  |  **Size:** 71.0 L/mm, 32.3 D/mm

**Naming Rules:**

<table>
<thead>
<tr>
<th>Type</th>
<th>Capacitance</th>
<th>Dash</th>
<th>Rated Voltage</th>
<th>Dash</th>
<th>Termination</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC</td>
<td>Lithium Ion Capacitor Cell</td>
<td>0800 = 800F</td>
<td>-</td>
<td>380 = 3.8V</td>
<td>-</td>
</tr>
</tbody>
</table>

**Notes:**

1. Measure capacitance and DC internal resistance at 25°C under 10A CC test current per Figure 1

2. Maximum voltage is non-repeatable and duration cannot exceed 1s

3. \[ \Delta T = I_{rms}^2 \times \text{ESR} \times R_{ca} \]

4. \[ 0.5C(V_{nom}^2)/3600 \]

5. \[ 0.5C(V_{nom}^2 - V_{min}^2)/3600 \]

6. \[ \text{Wh}_{usable} = \left( \frac{\pi r^2 (\text{mm}) \times L(\text{mm})}{1 \times 10^6} \right) \]

7. \[ \text{Wh}_{usable}/\text{weight(kg)} \]

Specifications are subject to change without notice.