

## FEATURES

- Compact size and energy dense
- Higher voltage
- Quick charge and discharge
- UL recognized RoHS & Reach compliant
- Molex 87439-0200

## APPLICATIONS

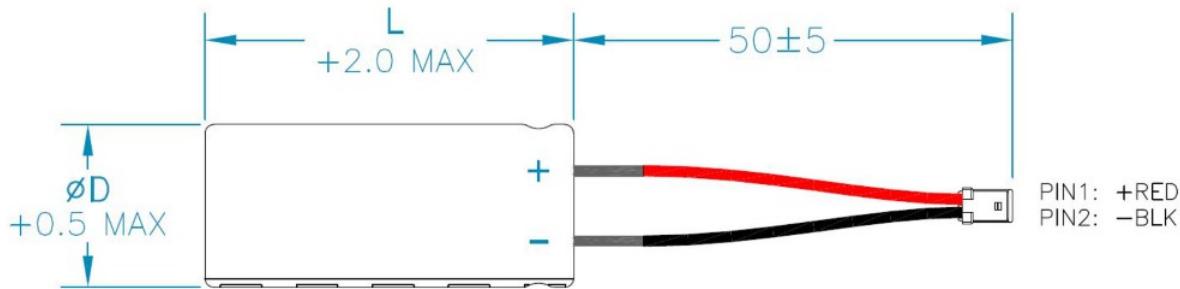
- Pulse power demand
- Ride thru power support
- Back up power
- Stand alone or augment existing energy/power source



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## GENERAL SPECIFICATIONS

| Item                                                  | Performance                                                                                                                                                            |
|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating temperature                                 | -15°C to +70°C @ 3.8V<br>-15°C to +85°C @ 3.5V                                                                                                                         |
| Storage temperature                                   | -25°C to +70°C                                                                                                                                                         |
| Capacitance                                           | 270F                                                                                                                                                                   |
| Capacitance tolerance                                 | +/-20%                                                                                                                                                                 |
| Rated voltage                                         | 3.8 VDC / 3.5 VDC                                                                                                                                                      |
| Minimum rated voltage                                 | 2.2 VDC                                                                                                                                                                |
| Surge voltage                                         | 4.2 VDC                                                                                                                                                                |
| Temperature characteristics                           | Capacitance change: Within ±50% of initial measured value at +25°C (-15°C to +70°C)<br>Internal resistance: Within ±600% of initial measured value at +25°C (at -15°C) |
| Endurance<br>(At rated voltage & max. operating temp) | After 1000 hours:<br>Capacitance change: ±30% of minimum rated value<br>Internal resistance: Within 2 times of maximum rated value                                     |
| Projected cycle life                                  | After 500,000 cycles: From 3.8V to 2.5V at 25°C<br>Capacitance change: Within ±30 % of minimum value<br>Internal resistance: Within 2 times of maximum rated value     |
| Shelf life                                            | Three years at 25°C, or 1000hours at 70°C without load. The Capacitor shall meet the specified endurance limits.                                                       |

**DIMENSIONS**

**STANDARD PRODUCTS**

| Part Number     | UL                                                                                | Nom. Cap. (F) | ESR AC<br>(mΩ)<br>(1 KHz) | ESR DC<br>Typical<br>(mΩ) | Leakage<br>Current<br>(µA) | Dimensions<br>(mm) |    | Rated<br>Current<br>(A) | Max<br>Current*<br>(A) | Weight/Unit<br>(grams) |
|-----------------|-----------------------------------------------------------------------------------|---------------|---------------------------|---------------------------|----------------------------|--------------------|----|-------------------------|------------------------|------------------------|
|                 |                                                                                   |               |                           |                           |                            | D                  | L  |                         |                        |                        |
| PBLC-3R8/270MA2 |  | 270           | 118                       | 170                       | 13                         | 18                 | 40 | 2.25                    | 7                      | 14.24                  |

\* Maximum allowable current for 3 seconds or less.