

### FEATURES

- Compact size and higher energy density
- Higher voltage
- Quick charge and discharge
- RoHS & REACH compliant

### APPLICATIONS

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



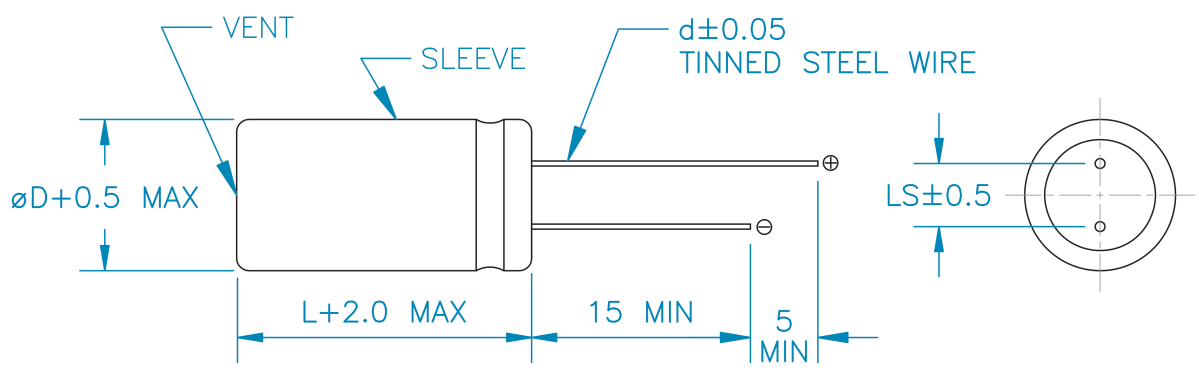
**Need a custom fit for your design? [Click here to get started.](#)**

### GENERAL SPECIFICATIONS

| Item                                                  | Performance                                                                                                                                                           |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating temperature                                 | -25°C to +70°C @ 3.8V<br>-25°C to +85°C @ 3.5V                                                                                                                        |
| Storage temperature                                   | -25°C to +70°C                                                                                                                                                        |
| Capacitance                                           | 300F                                                                                                                                                                  |
| Capacitance tolerance                                 | +/-20%                                                                                                                                                                |
| Rated voltage                                         | 3.8 VDC / 3.5 VDC                                                                                                                                                     |
| Minimum rated voltage                                 | 2.2 VDC                                                                                                                                                               |
| Surge voltage                                         | 4.35 VDC                                                                                                                                                              |
| Temperature characteristics                           | Capacitance change: Within ±50% of initial measured value at +25°C (-25°C to 70°C)<br>Internal resistance: Within ±200% of initial measured value at +25°C (at -25°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 250,000 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.                                                      |

Individual cells also available with cable and Molex connector 87439-0200. Please contact Tecate Group for a quotation.

**DIMENSIONS**



**STANDARD PRODUCTS**

| Part Number          | UL                                                                                  | Nom. Cap. (F) | ESR AC (mΩ) (1 KHz) | ESR DC Typical (mΩ) | Leakage Current (μA) | Dimensions (mm) |    |     |    | Rated Current (A) | Max Current* (A) | Weight/Unit (grams) |
|----------------------|-------------------------------------------------------------------------------------|---------------|---------------------|---------------------|----------------------|-----------------|----|-----|----|-------------------|------------------|---------------------|
|                      |                                                                                     |               |                     |                     |                      | D               | L  | d   | LS |                   |                  |                     |
| TPLCE-3R8/300MR12X35 |  | 300           | 50                  | 100                 | 30                   | 12.5            | 35 | 0.6 | 5  | 1.5               | 10               | 10                  |

\* Maximum allowable current for 3 seconds or less.