

### FEATURES

- Extremely low ESR
- 10 year service life
- RoHS compliant
- Halogen Free
- UL recognized



### APPLICATIONS

- Peak power handling
- Industrial automation
- UPS/voltage hold up

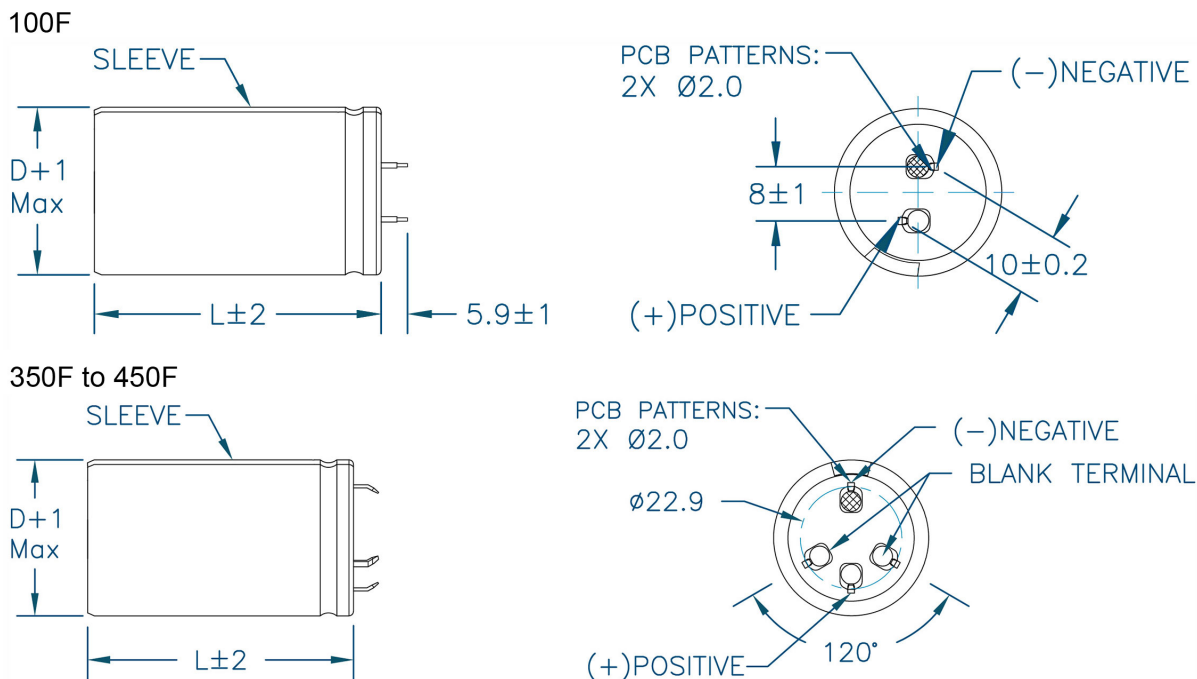


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### GENERAL SPECIFICATIONS

| Item                                                                      | Performance                                                                                                                                                                      |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating temperature                                                     | -40°C to +65°C @ 3V<br>-40°C to +85°C @ 2.5V                                                                                                                                     |
| Storage temperature                                                       | -40°C to +70°C                                                                                                                                                                   |
| Capacitance                                                               | 450F                                                                                                                                                                             |
| Rated voltage                                                             | 3 VDC / 2.5 VDC                                                                                                                                                                  |
| Surge voltage                                                             | 3.2 VDC                                                                                                                                                                          |
| Temperature characteristics                                               | Capacitance change: Within $\pm 5\%$ of initial measured value at +25°C (-40°C to +65°C)<br>Internal resistance: Within $\pm 50\%$ of initial measured value at +25°C (at -40°C) |
| Endurance<br>(At rated voltage & max. operating temp)                     | After 1500 hours:<br>Capacitance change: Within 20% of initial rated value<br>Internal resistance: Within 2 times of initial specified value                                     |
| Projected Load life<br>(At rated voltage & 25°C)                          | 10 years:<br>Capacitance change: Within 20% of initial rated value<br>Internal resistance: Within 2 times of initial specified value                                             |
| Projected cycle life<br>(From rated voltage to 1/2 rated voltage at 25°C) | 500,000 cycles:<br>Capacitance change: Within 20% of initial rated value<br>Internal resistance: Within 2 times of initial specified value                                       |
| Shelf life                                                                | After 4 years at 25°C without load, the capacitor shall meet the specified endurance limits.                                                                                     |

## DIMENSIONS



## STANDARD PRODUCTS

| Part Number         | Nom. Cap. (F) | GMV (F)* | ESR DC (mΩ) | ESR AC (mΩ) | Leakage Current (mA)<br>(72 hrs @ 25C) | Dimensions (mm) |    | Rated Current (A) | Weight/Unit (grams) |
|---------------------|---------------|----------|-------------|-------------|----------------------------------------|-----------------|----|-------------------|---------------------|
|                     |               |          |             |             |                                        | D               | L  |                   |                     |
| TPLH-3R0/450SS35X71 | 450           | 450      | 3.6         | 2.8         | 1                                      | 35              | 71 | 287               | 88                  |

\*NOTE: GMV = Guaranteed Minimum Value.