# TYPE TPLH SNAP-IN

## 3V, LOW-ESR, SNAP-IN ULTRACAPACITOR CELLS

### 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 | 400F |
| Rated voltage | 3 VDC / 2.5 VDC |
| Surge voltage | 3.2 VDC |
| Temperature characteristics | Capacitance change: Within ±5% of initial measured value at +25°C (-40°C to +65°C)<br>Internal resistance: Within ±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. |

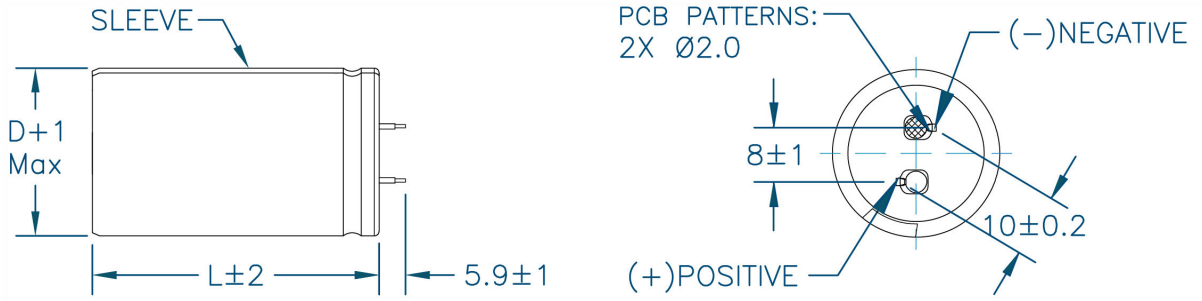
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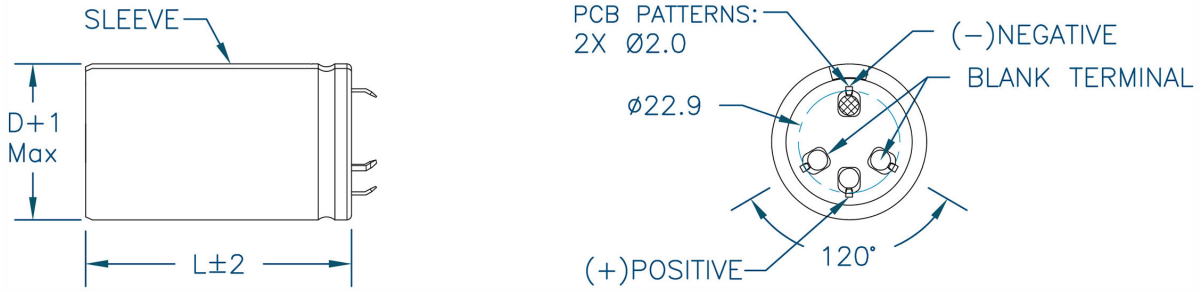
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## DIMENSIONS

100F




350F to 450F




## STANDARD PRODUCTS

| Part Number | Nom. Cap. (F) | GMV (F)* | ESR DC (mΩ) | ESR AC (mΩ) | Leakage Current (mA) (72 hrs @ 25C) | Dimensions (mm) | | Rated Current (A) | Weight/Unit (grams) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | D | L | | |
| TPLH-3R0/400SS35X66 | 400 | 400 | 3.6 | 2.9 | 0.9 | 35 | 66 | 267 | 80 |

*NOTE: GMV = Guaranteed Minimum Value.



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