

FEATURES

- Small size and low resistance
- Passive linear voltage balanced cells
- Quick charge and discharge
- JST ZHR-2 quick connect
- RoHS compliant
- UL recognized

APPLICATIONS

- Pulse power demand
- Hybrid battery packs
- Portable electronic devices

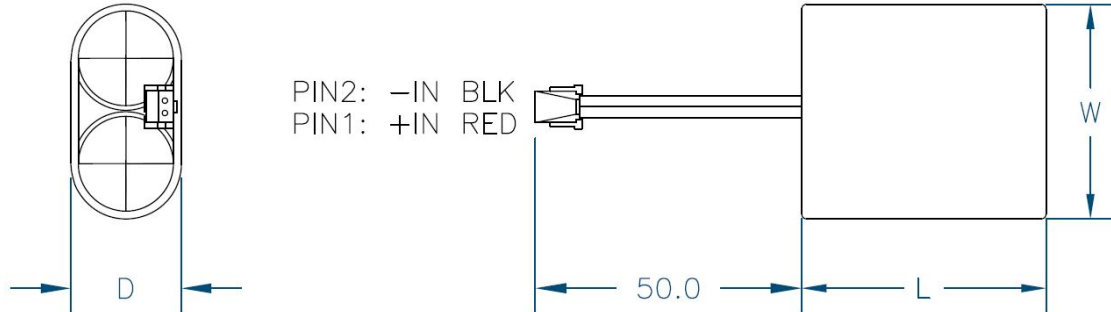


GENERAL SPECIFICATIONS

| Item | Performance |
|---|--|
| Operating temperature | -40°C to +65°C @ 5.4V -40°C to +85°C @ 4.6V |
| Storage temperature | -40°C to +70°C |
| Capacitance range | 0.25F to 15F |
| Capacitance tolerance | -10/+20% |
| Rated voltage | 5.4V/4.6V |
| Surge voltage | 5.7V |
| Temperature characteristics | Capacitance change: Within $\pm 5\%$ of initial measured value at +25°C (-40°C to +65°C) Internal resistance: Within $\pm 50\%$ of initial measured value at +25°C (at -40°C) |
| Endurance (At rated voltage & max. operating temp) | After 1000 hours: Capacitance change: within $\pm 30\%$ of initial rated value Internal resistance: Within 2 times of initial specified value |
| Load life (At rated voltage & 25°C) | After 10 years: Capacitance change: Within $\pm 30\%$ of initial rated value Internal resistance: Within 2 times of initial specified value |
| Cycle life (From rated voltage to 1/2 rated voltage at 25°C) | After 500,000 cycles: Capacitance change: Within $\pm 30\%$ of initial rated value Internal resistance: Within 2 times of initial specified value |
| Shelf life | After 1000 hours storage, at 70°C without load, the capacitor shall meet the specified endurance limits. |

DIMENSIONS (mm)

Units = mm



STANDARD PRODUCTS

| Part Number | Cap. (F) | Voltage | ESR DC (mΩ) | ESR AC (mΩ) (1 KHz) | Leakage Current (mA) (72 hrs @ 25C) | Dimensions (mm) | | | Max Peak Current (A) |
|---------------|----------|---------|-------------|------------------------|---|-----------------|----|------|----------------------|
| | | | | | | L | W | H | |
| PBLL-0.25/5.4 | 0.25 | 5.4 | 3,660 | 1,460 | 0.08 | 15.5 | 18 | 9.5 | 0.35 |
| PBLL-0.5/5.4 | 0.50 | 5.4 | 1,460 | 690 | 0.08 | 15.5 | 18 | 9.5 | 0.78 |
| PBLL-0.75/5.4 | 0.75 | 5.4 | 880 | 440 | 0.08 | 17.5 | 18 | 9.5 | 1.20 |
| PBLL-1.0/5.4 | 1.00 | 5.4 | 760 | 425 | 0.09 | 19.5 | 18 | 9.5 | 1.50 |
| PBLL-1.65/5.4 | 1.65 | 5.4 | 645 | 365 | 0.18 | 23.5 | 22 | 11.5 | 2.10 |
| PBLL-2.0/5.4 | 2.00 | 5.4 | 565 | 365 | 0.19 | 23.5 | 22 | 11.5 | 2.50 |
| PBLL-2.5/5.4 | 2.50 | 5.4 | 385 | 245 | 0.19 | 23.5 | 22 | 11.5 | 3.40 |
| PBLL-3.0/5.4 | 3.00 | 5.4 | 325 | 205 | 0.19 | 23.5 | 22 | 11.5 | 4.10 |
| PBLL-4.0/5.4 | 4.00 | 5.4 | 265 | 185 | 0.19 | 28.5 | 22 | 11.5 | 5.20 |
| PBLL-5.0/5.4 | 5.00 | 5.4 | 235 | 185 | 0.20 | 33.5 | 22 | 11.5 | 6.20 |
| PBLL-11.0/5.4 | 11.00 | 5.4 | 160 | 130 | 0.58 | 38.5 | 26 | 13.5 | 10.00 |
| PBLL-15.0/5.4 | 15.00 | 5.4 | 135 | 115 | 0.62 | 34.5 | 34 | 17.5 | 13.00 |

PART NUMBER EXAMPLE

| | | | | |
|-------------|---|----------------------|---|------------|
| PBLL | - | 0.25 | / | 5.4 |
| Type | | Capacitance Code (F) | | Voltage |