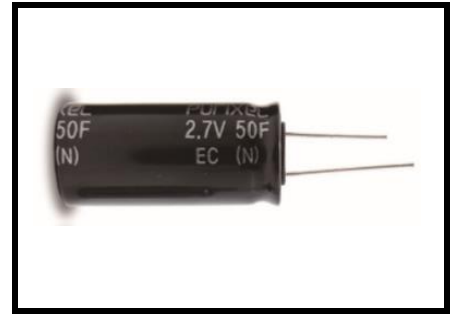


Purixel(ELECTRIC DOUBLE LAYER CAPACITORS)

PEC

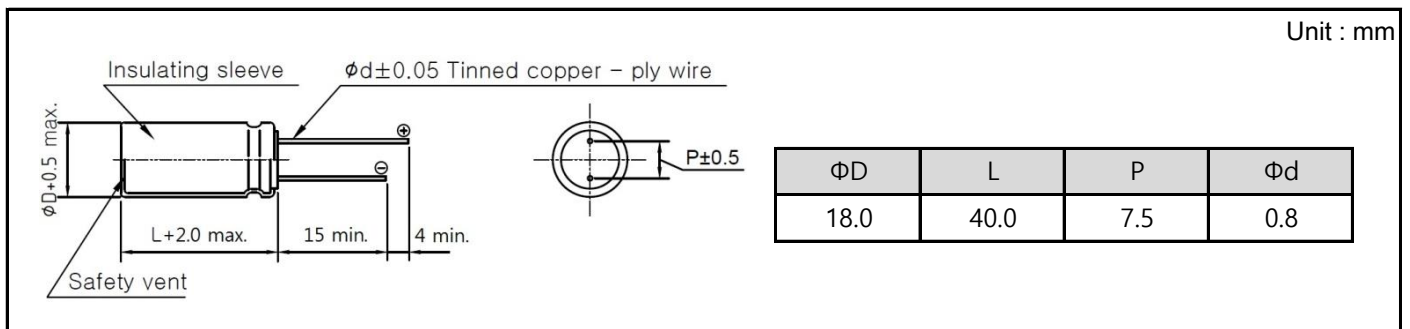
Radial Type
Standard Series



- Endurance : 2.7V 65°C 1500 hours
- Small size, high capacitance and low resistance
- Longer cycle life than other secondary batteries

| Item | Characteristics | |
|------------------------------------|---|--|
| Operating Temperature Range | -40 ~ +65°C | |
| Rated Voltage | 2.7 VDC | |
| Capacitance Tolerance | -10% ~ +20% | |
| Temperature Characteristics | Capacitance change | Within ±5% of initial value at +25°C |
| | Internal resistance | Within ±50% of initial value at +25°C |
| Endurance | Duration | 1500 hours |
| | Capacitance charge | Within ≤30% of initial value |
| | Internal resistance | Within ≤100% of initial specified value |
| Shelf Life | After 1500 hours no load test same as endurance | |
| Life Time at RT ⁽¹⁾ | 10 years | (1) ΔC ≤30% of initial value and ESR ≤100% of initial specified value. |
| Cycle Life(25°C) ⁽¹⁾⁽²⁾ | 500,000 cycles | (2) Cycle : between rated voltage and half rated voltage under constant current at 25 °C |

• DIMENSIONS



• SPECIFICATIONS

| Rated Voltage | Cap. | ESR, 1kHz | ESR, DC | LC(72hr) | Specific Energy | Specific Power | Max. Peak Current | Weight | Volume | PART No. |
|---------------|------|-----------|---------|----------|-----------------|----------------|-------------------|--------|--------|-------------------|
| V | F | mΩ | mΩ | mA | Wh/kg | kW/kg | A | g | mL | |
| 2.7 | 50 | 9 | 15 | 0.075 | 3.89 | 9.35 | 38.57 | 13.00 | 10.17 | PEC02R7SN50618040 |

1. Capacitance and Equivalent Series Resistance (ESR) measured according to IEC62391-1 at +25°C, with current in milliamps (mA) = 10°C
2. Leakage Current at 25°C after 72 hours charge and hold
3. Specific Energy (Wh/kg) = $(\frac{1}{2} * C * V^2) / \text{weight}$
4. Specific Power (kW/kg) = $(V^2 / 4 * \text{ESR}) / \text{weight}$
5. Max Peak Current in Amps (A), 1 second discharge from rated voltage to half rated voltage = $(\frac{1}{2} * C * V) / (1 + \text{ESR} * C)$