Purixel(ELECTRIC DOUBLE LAYER CAPACITORS)

PTC

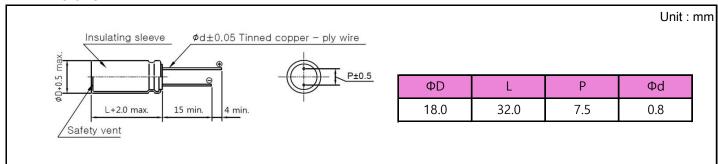
Radial Type Standard Series

- · Endurance : 2.7V 85°C 1000 hours
- · Small size, high capacitance and low resistance
- · Longer cycle life than other secondary batteries



| Item | Characteristics | | | | | |
|------------------------------------|---|--|--|--|--|--|
| Operating Temperature Range | -40 ~ +85°C | | | | | |
| Rated Voltage | 2.7 VDC | | | | | |
| Capacitance Tolerance | -10% ~ +20% | | | | | |
| Temperature Characteristics | Capacitance ch | hange Within ±5% of initial value at +25°C | | | | |
| | Internal resistan | ance Within ±50% of initial value at +25°C | | | | |
| Endurance | Duration Capacitance cha | | | | | |
| Shelf Life | After 1000 hours no load test same as endurance | | | | | |
| Life Time at RT ⁽¹⁾ | 10 years | (1) ∆C ≤30% of initial value and ESR ≤200% 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 | Сар. | 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 | Α | g | mL | |
| 2.7 | 33 | 13 | 20 | 0.100 | 3.31 | 9.02 | 26.84 | 10.10 | 8.14 | PTC02R7SN33618032 |

- 1. Capacitance and Equivalent Series Resistance (ESR) measured according to IEC62391-1 at $+25^{\circ}$ 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) = $(\frac{1}{2} *C*V^2/3600)$ /weight
- 4. Specific Power (kW/kg) = $(V^2/4*ESR)$ /weight
- 5. Max Peak Current in Amps (A), 1 second discharge from rated voltage to half rated voltage = (½*C*V)/(1+ESR*C)