

Type CDLC Carboncap High-Power Board-Mount Ultracapacitor

Multi-Pin Snap-In Terminals



This leading edge, organic electrolyte D cell ultracapacitor can easily handle more than a half million duty cycles and has multiple pins and snap-in terminals for easy, reverse proof, robust, board mounting. They are suited for industrial power back up, renewable energy systems, short term UPS, and telecom applications.

Highlights

- High Power Performance.
- Ultra Low ESR Characteristics
- Available with Surface Mount multi-pin radial termination

Specifications

| | |
|-----------------------------|--|
| Operating Temperature Range | -40 °C to +65 °C |
| Storage Temperature Range | -40 °C to +70 °C |
| Rated Voltage Range | 2.7 Vdc, 2.85 Vdc rated surge |
| Capacitance Range | 350 F |
| Capacitance Tolerance | -5 / +10% |
| Life at Room Temperature | 10 years at rated voltage and 25 °C Capacitance change ≤20% ESR change ≤100% |
| Life Test | 1000 h @ rated voltage and +65 °C Capacitance change ≤20% decrease from min. initial value ESR change ≤100% increase from max. initial value |
| Cycle Test | 1,000,000 cycles (rated to half rated voltage, 25 °C) Capacitance change ≤20% decrease ESR change ≤100% increase |
| Shelf Life | 1000 h, no voltage, +70 °C Capacitance change ≤20% from min. initial capacitance ESR change ≤100% from max. initial ESR |
| RoHS Compliant | |

Ratings

| Part Number | CDLC351K2R7S4 |
|---|------------------|
| Terminal Configuration | multi-pin radial |
| Capacitance (F) (Discharge w constant current at 25°C) | 350 |
| ESR, DC (mΩ), Max | 2.7 |
| Current - Max Peak (A) (1 s discharge rate to 50% of rated Voltage) | 243 |
| Leakage current (mA), Max after 72 h at +25 °C | 1.0 |
| Usable Power Density, Pd (W/kg) (Per IEC 62391-2) | 4900 |
| Usable Power (W) | 324 |
| Impedance match power, (W/kg) | 11500 |
| Gravimetric energy density, Emax (Wh/kg) | 5.4 |
| Energy available (Wh) (At rated voltage) | .35 |
| Weight (kg) | .066 |
| Maximum Continuous Current (Arms) (ΔT=20 °C) | 24 |
| Short circuit current (A) | 750 |

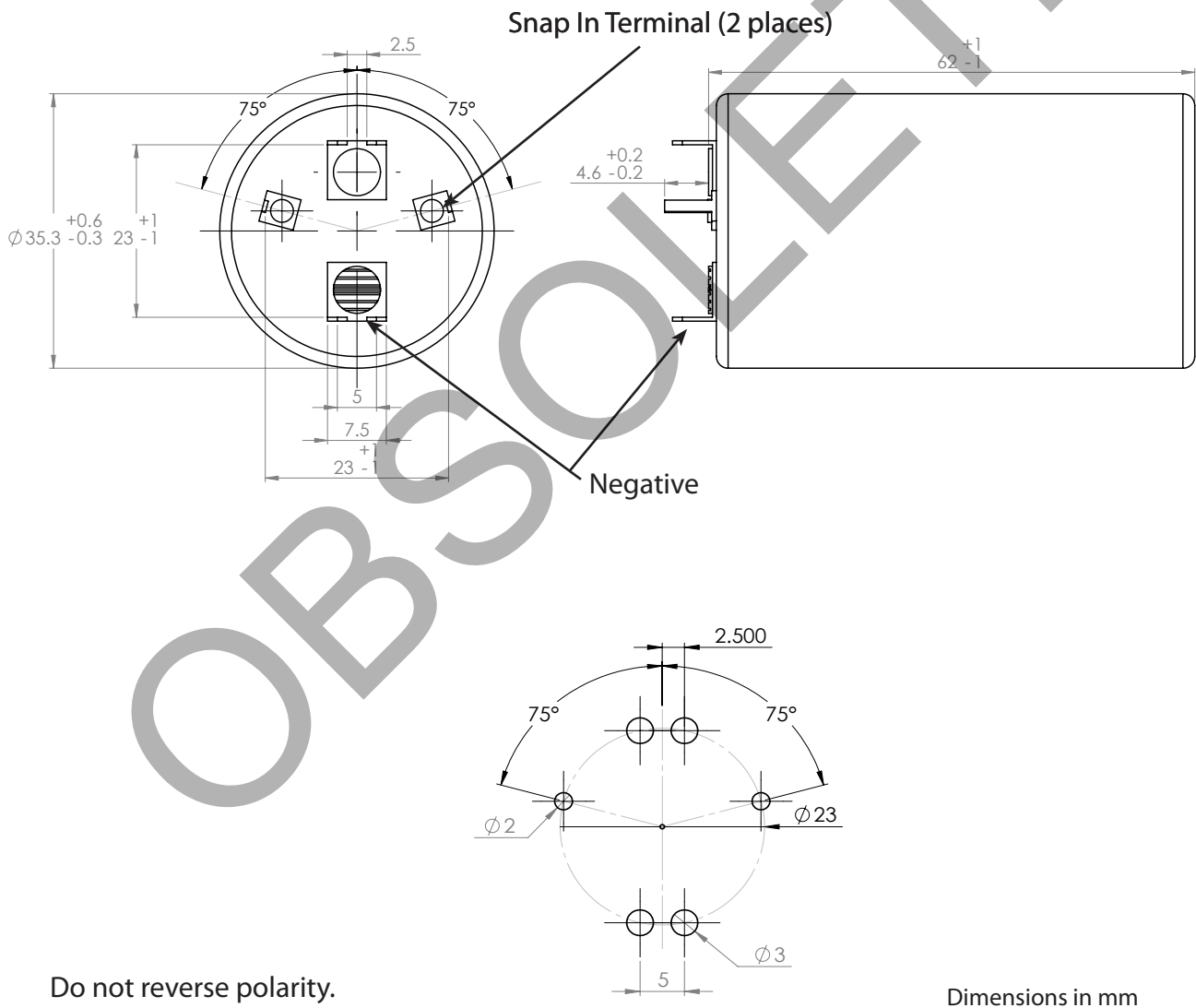
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Part Numbering System

| CDLC | 351 | K | 2R7 | S4 |
|---------------------------------|-----------------|----------------|-------------|-----------------------|
| Type | Capacitance (F) | Tolerance (%) | Voltage (V) | Configuration |
| CDLC - Carbon Double Layer Cell | 351 = 350 | K = -5% / +10% | 2R7 = 2.7 | S4 = multi-pin radial |

Outline Drawing and Dimensions



Do not reverse polarity.

Dimensions in mm