

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 (Amps) (ΔT=20 °C)	24
Short circuit current (A)	750

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Part Numbering System

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

Outline Drawing and Dimensions

