

# Type CDLC Carboncap High-Power Board-Mount Ultracapacitor

## 4 Pin Radial Type



This leading edge, organic electrolyte D cell ultracapacitor can easily handle more than a half million duty cycles and is designed for reverse proof surface mount assembly. 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 4 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	-0% / +20%
Life at Room Temperature	10 years at rated voltage and 25 °C Capacitance change ≤20% ESR change ≤100%
Life Test	1500 Hours @ rated voltage and +65 °C Capacitance change ≤20% decrease from min. initial value ESR change ≤100% increase from max. initial value
Cycle Test	500,000 cycles Capacitance change ≤20% ESR change ≤100%
Shelf Life	2 years Capacitance change ≤10% from min. initial capacitance ESR change ≤50% from max. initial ESR
<b>RoHS Compliant</b>	

### Ratings

Part Number	CDLC351E2R7T11
Terminal Configuration	4 pin radial
<b>Capacitance (F)</b> (Discharge w constant current at 25°C)	350
<b>ESR, DC (mΩ), Max</b>	3.2
<b>Current - Max Peak (A)</b> (1 s discharge rate to 50% of rated Voltage)	220
<b>Leakage current (mA), Max</b> after 72 h at +25 °C	.32
<b>Usable Power Density, Pd (W/kg)</b> (Per IEC 62391-2)	4600
<b>Usable Power (W)</b>	276
<b>Impedance match power, (W/kg)</b>	9500
<b>Gravimetric energy density, Emax (Wh/kg)</b>	5.9
<b>Energy available (Wh)</b> (At rated voltage)	.35
<b>Weight (kg)</b>	.060
<b>Maximum Continuous Current (Arms)</b> (ΔT=15°C)	21
<b>Short circuit current (A)</b>	840

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### Part Numbering System

<b>CDLC</b>   <b>Type</b>	<b>351</b>   <b>Capacitance</b> (F)	<b>E</b>   <b>Tolerance</b> (%)	<b>2R7</b>   <b>Voltage</b> (V)	<b>T11</b>   <b>Configuration</b>
CDLC - Carbon Double Layer Cell	351 = 350	E = -0% / +20%	2R7 = 2.7	T11 = 4 pin radial

### Outline Drawing and Dimensions

