Type CDLC Carboncap High-Power Board-Mount Ultracapacitor

4 Pin Radial Type

Specifications



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

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Operating Temperature Range Storage Temperature Range	-40 °C to +65 °C -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	
RoHS Compliant		

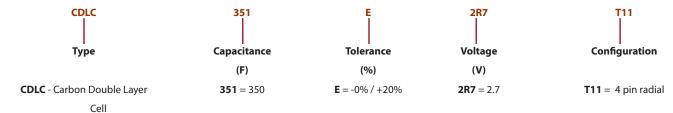
Ratings

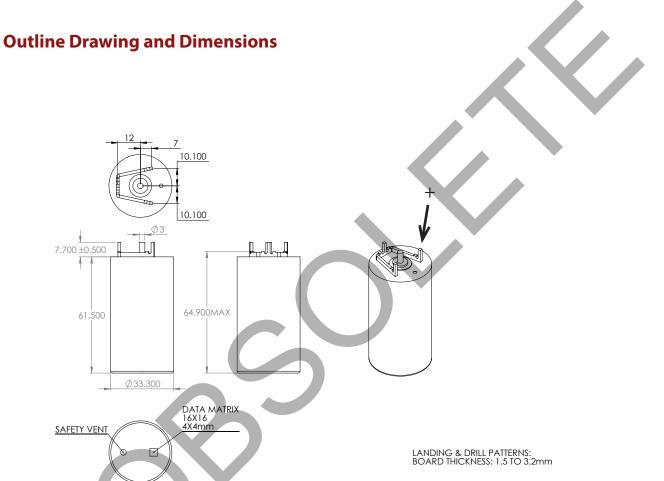
Part Number	CDLC351E2R7T11
Terminal Configuration	4 pin radial
Capacitance (F) (Discharge w constant current at 25°C)	350
ESR, DC (mΩ), Max	3.2
Current - Max Peak (A) (1 s discharge rate to 50% of rated Voltage)	220
Leakage current (mA), Max after 72 h at +25 °C	.32
Usable Power Density, Pd (W/kg) (Per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

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Part Numbering System





Do not reverse polarity. Certified to UL810a, File # MH48530.