

# ILLINOIS CAPACITOR INC.

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## IC Part Number: 807DCR2R3S4EK

Radial lead Supercapacitors  
Parts are RoHS compliant: Yes

### Electrical Specifications

**Capacitance:**  
800 F

**Tolerance:**  
+50 %, -20 %

**TEMPERATURE RANGE:**  
-25°C to +70°C

**Maximum stored energy:**  
.5878 Watt hours

**ESR (AC):**  
10 milliOhms at 1 kHz, 20°C

**Maximum Current:**  
70.77amp(1second discharge to 1/2 the rated voltage)

**Energy Density:**  
7.9929Wh/kg

**Energy Density(Volumetric):**  
8.728Wh/l

**Load Life:**  
1000 hours at 70°C and 100 % of rated voltage applied

**Max Capacitance change:** <30% of initially measured value

**ESR change:** ≤400% of maximum specified value

**WVDC:**  
2.3 Volts DC

**SVDC:**  
2.5 Volts DC

**Volume:**  
67.34mL

**Weight:**  
73.54g

**Operating Current:**  
14.15Amp(5sec discharge to 1/2 rated voltage)

**ESR (DC):**  
15 milliOhms at DC, 20°C  
**Power Density:**  
0.5755kW/kg  
**Power Density(Volumetric):**  
0.6284kW/l

**Leakage Current:**  
7.2 mA after applying rated voltage for 72 hours at room temperature

### Physical Dimensions:

**Diameter (D):** 35 mm, + 1 mm  
**Length (L):** 70 mm, + 2 mm  
**Lead Spacing (S):** 22.5 mm, +/- .2 mm  
**Lead Length (LL):** 6.3 mm, +/- 1 mm  
**Sleeving :** BLACK PET sleeving  
**Termination Finish:** Matte Tin

