

# ILLINOIS CAPACITOR INC.

10/29/2013X

3757 W. Touhy Ave. Lincolnwood, IL 60712 (847)-675-1760 FAX (847)-673-2850, www.illcap.com  
Illinois Capacitor (HK) Ltd., Tel: 85227930931, Fax: 85227930731, www.illcap.com.hk

## IC Part Number: 305DER2R5SFJG

Radial lead Supercapacitors  
Parts are RoHS compliant: Yes

### Electrical Specifications

**Capacitance:**

3 F

**Tolerance:**

+50 %, -20 %

**TEMPERATURE RANGE:**

-25°C to +70°C

**Maximum stored energy:**

0.0029 Watt hours

**ESR (AC):**

160 milliOhms at 1 kHz, 20°C

**Maximum Current:**

3.75 Amps (1 second discharge to 1/2 the rated voltage)

**Load Life:**

1000 hours at 70°C and 100 % of rated voltage applied

**WVDC:**

2.5 Volts DC

**SVDC:**

2.7 Volts DC

**ESR (DC):**

320 milliohms, 20°C

**Operating Current:**

.75 Amps (5 sec discharge to 1/2 rated voltage)

**Leakage Current:**

0.01 mA after applying rated voltage for 72 hours at room temperature

**Max Capacitance change:** <30% of initially measured value  
**ESR change:** ≤400% of maximum specified value

### Physical Dimensions:

<b>Diameter (D):</b>	8 mm, + 0.5 mm
<b>Length (L):</b>	20 mm, + 1.5 mm
<b>Lead Spacing (S):</b>	3.5 mm, +/- 0.5 mm
<b>Lead wire diameter (d):</b>	0.6 mm, +/- 0.05 mm
<b>Lead Length (LL):</b>	15 mm MIN
<b>Sleeving :</b>	BLACK PET sleeving
<b>Termination Finish:</b>	Matte Tin

