

## 227ALG035MFBJ

RADIAL LEAD ALUMINUM POLYMER CAPACITORS

Parts are RoHS compliant

### ELECTRICAL SPECIFICATIONS

**Capacitance:** 220  $\mu$ F

**Dissipation Factor:** 0.12 Max at 120 Hz and 20°C

**Temperature Range:** -55°C to +125°C

**ESR:** 0.9043 Ohms Max at 20°C and 120 Hz

**Impedance:** 23 milliohm Max at 20°C and 100 KHz

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

**WVDC:** 35 Volts DC

**SVDC:** 40.25 Volts DC

**Ripple Current:** 3400 mA at 100 kHz and 105°C

1360mA at 100 kHz and 125°C

**Impedance Ratios:** -25°C/20°C  $\leq$  1.15 and -55°C/20°C  $\leq$  1.25

**Leakage Current:** 0.2CV

1540  $\mu$ A after 2 Minutes

**Load Life:** 1500 hours at 125°C with 100 % of rated voltage and with 0 % of rated ripple current

**Capacitance Change:**  $\leq$ 30% of initial measured value

**Dissipation Factor Change:**  $\leq$ 300% of maximum specified value

**ESR Change:**  $\leq$ 300%

**Leakage Current:**  $\leq$ 100% of maximum specified value

#### Ripple Current Multipliers

##### Frequency Multipliers:

| 50 HZ | 120 HZ | 400 HZ | 1 KHZ | 10 KHZ | 100 KHZ |
|-------|--------|--------|-------|--------|---------|
| 0.05  | 0.05   | 0.05   | 0.3   | 0.7    | 1       |

##### Temperature Multipliers:

| 45°C | 60°C | 70°C | 65°C | 75°C | 85°C | 105°C | 125°C |
|------|------|------|------|------|------|-------|-------|
| 1    | 1    | 1    | 1    | 1    | 1    | 1     | 1     |

### PHYSICAL DIMENSIONS

**Diameter (D):** 8 mm + 0.5 mm

**Length (L):** 12 mm + 1.5 mm

**Lead Spacing (S):** 3.5 mm +/- 0.5 mm

**Coating:** clearlaminate sleeving

**Lead Wire Diameter (d):** 0.6 mm +/- 0.05 mm

**Lead Length:** 15 mm +/- Min mm

**Lead Finish:** Matte Tin



2400 East Devon Avenue Suite 292 Des Plaines, IL 60018 (847) 675-1760 FAX (847) 673-2850

Illinois Capacitor (HK) Ltd., Tel: 85227930931, Fax: 85227930731, [www.illcap.com.hk](http://www.illcap.com.hk)

© Copyright 2020 Illinois Capacitor. An affiliate of Cornell Dubilier, All Rights Reserved