

## 477ALG025MFBJ

RADIAL LEAD ALUMINUM POLYMER CAPACITORS

Parts are RoHS compliant

### ELECTRICAL SPECIFICATIONS

Capacitance: 470  $\mu$ F

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

Temperature Range: -55°C to +125°C

ESR: 0.42328 Ohms Max at 20°C and 120 Hz

Impedance: 16 milliohm Max at 20°C and 100 KHz

Tolerance: -20 %, +20 %

WVDC: 25 Volts DC

SVDC: 28.75 Volts DC

Ripple Current: 4750 mA at 100 kHz and 105°C

1900mA 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

2350  $\mu$ A after 2 Minutes

Load Life: 2000 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 |
|------|------|------|------|------|------|-------|-------|
| 1.9  | 1.9  | 1.9  | 1.9  | 1.75 | 1.75 | 1.4   | 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: clearlaminat sleeveing

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

Lead Length: 15 mm +/- Min mm

Lead Finish: Matte Tin



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