

PART NUMBER: 827AVG016MFBJ

RADIAL LEAD ALUMINUM POLYMER CAPACITORS

Parts are RoHS compliant

ELECTRICAL SPECIFICATIONS

Capacitance: 820 μ F

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

Temperature Range: -55 $^\circ\text{C}$ to +125 $^\circ\text{C}$

ESR: 0.24261 Ohms Max at 20 $^\circ\text{C}$ and 120 Hz

13 mOhms Max at 20 $^\circ\text{C}$ and 100 kHz

Impedance: N/A

Tolerance: -20 % , +20 %

WVDC: 16 Volts DC

SVDC: 18.4 Volts DC

Ripple Current: 4650 mA at 100 kHz and 105 $^\circ\text{C}$

1860mA at 100 kHz and 125 $^\circ\text{C}$

Impedance Ratios: -25 $^\circ\text{C}/20^\circ\text{C}$ \leq 1.15

-55 $^\circ\text{C}/20^\circ\text{C}$ \leq 1.25

Leakage Current: 0.2CV

2624 μ A after 2 Minutes

Load Life: 4000 hours at 105 $^\circ\text{C}$ with 100 % of rated voltage and with % of rated ripple current

Capacitance Change: \leq 25% of initial measured value

Dissipation Factor Change: \leq 200% of maximum specified value

ESR Change: N/A

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	0.07	1

Temperature Multipliers:

45 A°C	60 A°C	70 A°C	65 A°C	75 A°C	85 A°C	105 A°C	125 A°C
C	C	C	C	C	C	C	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: clear laminate sleeving

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

Lead Length: 15 mm +/- Min mm

Lead Finish: Matte Tin

