

ILLINOIS CAPACITOR INC.

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I.C. PART NUMBER: 477CKR063MSA

Standard Miniature Radial Lead Aluminum Electrolytic Capacitors

Parts are RoHS compliant

ELECTRICAL SPECIFICATIONS

CAPACITANCE:

470 μ F

TOLERANCE:

-20 %, +20 %

DISSIPATION FACTOR:

0.1 Max at 120 Hz and 20°C

ESR

0.353 Ohms Max at 20°C and 120 Hz

IMPEDANCE

N/A

TEMPERATURE RANGE:

-40°C to +85°C

WVDC:

63 Volts DC

SVDC:

79 Volts DC

RIPPLE CURRENT:

1030 mA at 120 Hz and +85°C

IMPEDANCE RATIOS

-25°C/20°C - 2

-40°C/20°C - 3

LEAKAGE CURRENT

.03CV or 4 μ A, whichever is greater

888 μ A after 1 Minute

.01CV or 3 μ A, whichever is greater

296 μ A after 2 Minutes

RIPPLE CURRENT FREQUENCY

50 Hz: 120 Hz: 400 Hz: 1 kHz: 10 kHz: 100 kHz:

0.8 1 1 1.15 1.25 1.25

LOAD LIFE

2000 hours at 85°C with 100 % of rated voltage
 and with 100 % of rated ripple current

RIPPLE CURRENT TEMPERATURE

45°C: 60°C: 65°C: 70°C: 75°C: 85°C: 105°C: 125°C:

1.25 1.25 1.25 1.14 1.14 1 0 0

Cap change: $\leq$ 20% of initially measured value

DF change: $\leq$ 200% of maximum specified value

LC change: $\leq$ 100% of maximum specified value

PHYSICAL SPECIFICATIONS

DIAMETER (D): 12.5 mm + 0.8 mm
LENGTH (L): 25 mm + 1.5 mm
LEAD SPACING (S): 5 mm +0.8/- 0.2 mm
LEAD WIRE DIAMETER (d): 0.6 mm +/- 0.05 mm
Sleeving: BLACK PVC sleeving
Lead Finish: Matte Tin

