

ILLINOIS CAPACITOR INC.

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PART NUMBER 105MWF250K

Metallized Polyester Wrap and Fill Oval/Axial Lead Capacitors

Parts are RoHS compliant: Yes

Date code when parts became RoHS compliant: 19

ELECTRICAL SPECIFICATIONS

CAPACITANCE:

1 μ F

TOLERANCE:

-10 %, +10 %

DISSIPATION FACTOR:

0.01 Max at 1000 Hz and 25°C

0.015 Max at 10 kHz and 25°C

DV/DT:

4 V/ μ S

TEMPERATURE COEFFICIENT:

400 PPM/°C: -200 PPM/°C, 200 PPM/°C

Terminal to Terminal Dielectric strength:

1.5 times the rated DC voltage when applied
between the terminals for 10 seconds

LOAD LIFE:

2000 hours at 85°C and with 125 % of rated
voltage

TEMPERATURE RANGE:

-40°C to +105°C

Above 85°C the rated voltage(DC/AC) must be
de-rated at 1.5% per °C

WVDC:

250 Volts DC

SVDC:

N/A Volts DC

VAC:

160 Volts AC

Self inductance:

1 Nanohenries per mm of pitch and lead length

INSULATION RESISTANCE (T - T):

10000 Megohm \times Microfarads MINIMUM after 100
Volts DC is applied for 60 seconds at 20°C

Capacitance change: <5% of initially measured value

D.F. Change: <0.5%

I.R. change: >50% of minimum specified value

PHYSICAL SPECIFICATIONS

LENGTH (L): 27 mm MAX
HEIGHT (H): 13 mm MAX
THICKNESS (T): 8 mm MAX
LEAD WIRE (d): 0.8 mm, +/- 0.05 mm
LEAD LENGTH (LL): 35 mm MIN
Lead Finish: Matte Tin

