

# PART NUMBER: 107SML050M

## +85°C, GENERAL PURPOSE 2000 HOURS

### PARTS ARE ROHS COMPLIANT

#### FEATURES

Small size, low cost

#### APPLICATIONS

General purpose, filtering, bypass, filtering

#### ELECTRICAL SPECIFICATIONS

**Capacitance:** 100 uF

**Dissipation Factor:** 0.12 Max at 120 Hz

**Temperature Range:** -40°C to +85°C

**ESR:** 1.99 Ohms Max at 20°C and 120 Hz

**Impedance:** N/A

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

**WVDC:** 50 Volts DC

**SVDC:** 63 Volts DC

**Ripple Current:** 200 mA at 120 Hz and 85°C

**Impedance Ratios:** -25°C/20°C - 2  
-40°C/20°C - 3

**Leakage Current:** .01CV or 3uA, whichever is greater 50 uA after 2 Minutes

**Load Life:** 2000 hours at 85°C with 100 % of rated voltage and with 0 % of rated ripple current

**Max Capacitance Change:** ≤20% of initially measured value

**Dissipation Factor Change:** ≤200% of maximum specified value

**Leakage Current:** ≤100% of maximum specified value

#### Ripple Current Multipliers

##### Frequency Multipliers:

50 Hz	120 Hz	400 Hz	1 kHz	10 kHz	100 kHz
0.7	1	1.17	1.36	1.5	1.5

##### Temperature Multipliers:

45°C	60°C	70°C	65°C	75°C	85°C	105°C	125°C
1.35	1.35	1.35	1.35	1	1	0	0

#### PHYSICAL DIMENSIONS

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

**Length (L):** 10.5 mm, +/- 0.5 mm

**Lead Spacing (S):** 3.1 mm, +/- 0.2 mm

**Lead Wire Diameter (d):** 0.8 mm, +/- 1.1 mm

**Lead Length (LL):** 2.9 mm

**Lead Finish:** Matte Tin

