



# 105SAK050M

RADIAL LEAD LOW PROFILE

Parts are RoHS compliant

Date code when parts became RoHS: 23

**APPLICATIONS:** General Purpose, Bypass, coupling, Filtering, Handheld devices

## ELECTRICAL SPECIFICATIONS

**Capacitance:** 1 uF

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

**Temperature Range:** -40°C to +85°C

**ESR:** 198.944 Ohms Max at 20°C and 120 Hz

**Impedance:** N/A

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

**WVDC:** 50 Volts DC

**SVDC:** 63 Volts DC

**Ripple Current:** 13 mA at 120 Hz and 85°C

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

**Leakage Current:** .03CV or 4uA, whichever is greater

4 uA after 1 Minute

.01CV or 3uA, whichever is greater

3uA after 2 Minutes

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

**Capacitance Change:** ≤20% of initial measured value

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

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

### Frequency Multipliers:

### Temperature Multipliers:

50 HZ	120 HZ	400 HZ	1 KHZ	10 KHZ	100 KHZ
0.75	1	1.35	1.57	1.5	2

45°C	60°C	70°C	65°C	75°C	85°C	105°C	125°C
1.8	1.7	1.4	1.6	1	1	0	0

## PHYSICAL DIMENSIONS

**Diameter (D):** 5 mm + 0.5 mm

**Length (L):** 9 mm + 1.5 mm

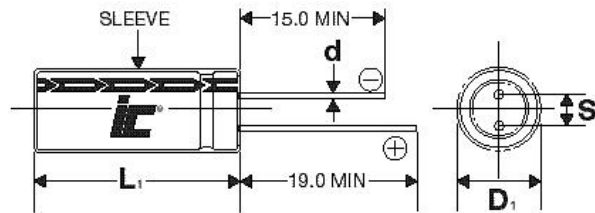
**Lead Spacing (S):** 2 mm +/- 0.5 mm

**Coating:** BlackPET sleeving

**Lead Wire Diameter (d):** 0.5 mm +/- 0.05 mm

**Lead Length:** 15 mm +/- MIN mm

**Lead Finish:** Matte Tin



3757 W. Touhy Ave. Lincolnwood, IL 60712 (847) 675-1760 FAX (847) 673-2850  
Illinois Capacitor (HK) Ltd., Tel: 85227930931, Fax: 85227930731, [www.ilcap.com.hk](http://www.ilcap.com.hk)  
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