



# 105CKE450M

RADIAL LEAD GENERAL PURPOSE

Parts are RoHS compliant

Date code when parts became RoHS: 23

**APPLICATIONS:** Filtering, Bypass, coupling

## ELECTRICAL SPECIFICATIONS

**Capacitance:** 1 uF

**Dissipation Factor:** 0.2 Max at 120 Hz and 20°C

**Temperature Range:** -25°C to +105°C

**ESR:** 331.57 Ohms Max at 20°C and 120 Hz

**Impedance:** N/A

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

**WVDC:** 450 Volts DC

**SVDC:** 500 Volts DC

**Ripple Current:** 22 mA at 120 Hz and 105°C

**Impedance Ratios:**-25°C/20°C 7 and -40°C/20°C - -

**Leakage Current:** .03CV+40uA

53.5 uA after 2 Minutes

**Load Life:** 2000 hours at 105°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:

50 HZ	120 HZ	400 HZ	1 KHZ	10 KHZ	100 KHZ
0.65	1	1.35	1.75	2.3	2.5

### Temperature Multipliers:

45°C	60°C	70°C	65°C	75°C	85°C	105°C	125°C
2.23	2.17	1.9	2	1.75	1.75	1	0

## PHYSICAL DIMENSIONS

**Diameter (D):** 10 mm + 0.5 mm

**Length (L):** 12.5 mm + 1.5 mm

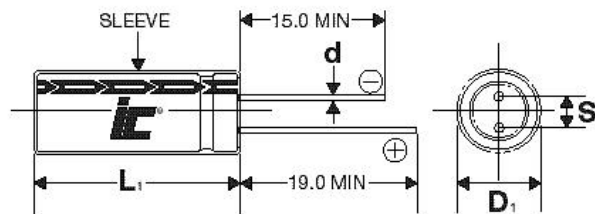
**Lead Spacing (S):** 5 mm +/- 0.5 mm

**Coating:** CKH-BLK, CKE-BWNPET sleeving

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

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

**Lead Finish:** Matte Tin



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