



105KBM100M

RADIAL LEAD HIGH FREQUENCY/ LOW IMPEDANCE

Parts are RoHS compliant

Date code when parts became RoHS: 26

APPLICATIONS: Switching regulators and power supplies, input filters

ELECTRICAL SPECIFICATIONS

Capacitance: 1 uF

Dissipation Factor: 0.08 Max at 120 Hz and 20°C

Temperature Range: -40°C to +105°C

Impedance: 4.5Ohms100 kHz20°C

Ohms100 kHz-10°C

Tolerance: -20 %, +20 %

WVDC: 100 Volts DC

SVDC: 125 Volts DC

Ripple Current: 20 mA at 100 kHz and 105°C

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

Leakage Current: .01CV or 3uA, whichever is greater

3 uA after 2 Minutes

Load Life: 5000 hours at 105°C with 100 % of rated voltage and with 0 % of rated ripple current

Capacitance Change: ≤25% 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 |
|-------|--------|--------|-------|--------|---------|
| 1 | 1 | 1 | 1 | 1 | 1 |

Temperature Multipliers:

| 45°C | 60°C | 70°C | 65°C | 75°C | 85°C | 105°C | 125°C |
|------|------|------|------|------|------|-------|-------|
| 2.23 | 2.17 | 1.6 | 1.75 | 1.4 | 1.4 | 1 | 0 |

PHYSICAL DIMENSIONS

Diameter (D): 5 mm + 0.5 mm

Length (L): 11 mm + 1.5 mm

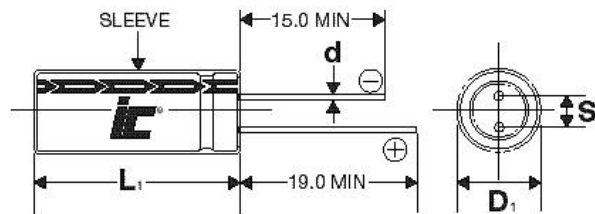
Lead Spacing (S): 2 mm +/- 0.5 mm

Coating: BlackPET sleeving

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

Lead Length: 15 mm +/- Min mm

Lead Finish: Matte Tin



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