

## 477KBM050M

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:** 470 uF

**Dissipation Factor:** 0.1 Max at 120 Hz and 20°C

**Temperature Range:** -40°C to +105°C

**ESR:** 0.3527 Ohms Max at 20°C and 120 Hz

**Impedance:** 0.045 Ohms 100 kHz 20°C

Ohms 100 kHz -10°C

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

**WVDC:** 50 Volts DC

**SVDC:** 63 Volts DC

**Ripple Current:** 1670 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  
235 uA after 2 Minutes

**Load Life:** 10000 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):** 12.5 mm + 0.5 mm

**Length (L):** 20 mm + 2 mm

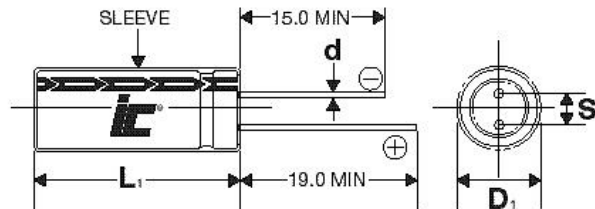
**Lead Spacing (S):** 5 mm +/- 0.5 mm

**Coating:** BlackPET 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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