



# 566KFM450MKAD

RADIAL LEAD HIGH FREQUENCY/ LOW IMPEDANCE

Parts are RoHS compliant

Date code when parts became RoHS: 1424

**APPLICATIONS:** Switching regulators and power supplies, input filters

## ELECTRICAL SPECIFICATIONS

**Capacitance:** 56 uF

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

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

**ESR:** 5.9209 Ohms Max at 20°C and 120 Hz

**Impedance:** 1.38Ohms100 kHz20°C

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

**WVDC:** 450 Volts DC

**SVDC:** 500 Volts DC

**Ripple Current:** 750 mA at 100 kHz and 105°C

**Impedance Ratios:**-40°C/20°C 9 and - - -

**Leakage Current:** .02CV+10uA

514 uA after 2 Minutes

**Load Life:** 10000 hours at 105°C with 100 % of rated voltage and with 100 % 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
0.85	0.85	0.85	0.95	0.98	1

### Temperature Multipliers:

45°C	60°C	70°C	65°C	75°C	85°C	105°C	125°C
2.23	2.17	2	2.1	1.75	1.75	1	0

## PHYSICAL DIMENSIONS

**Diameter (D):** 16 mm + 0.5 mm

**Length (L):** 35 mm + 2 mm

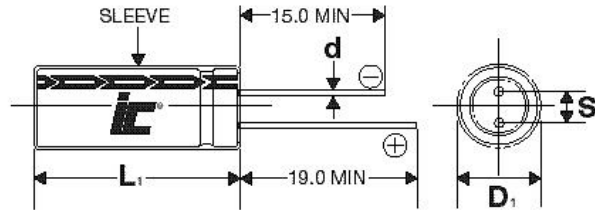
**Lead Spacing (S):** 7.5 mm +/- 0.5 mm

**Coating:** GreenPET sleeving

**Lead Wire Diameter (d):** 0.8 mm +/- 0.05 mm

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

**Lead Finish:** Matte Tin



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