



685KFM450M

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: 6.8 μ F

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

Temperature Range: -40°C to +105°C

ESR: 48.7607 Ohms Max at 20°C and 120 Hz

Impedance: 8.7 Ohms 100 kHz 20°C

Tolerance: -20 %, +20 %

WVDC: 450 Volts DC

SVDC: 500 Volts DC

Ripple Current: 150 mA at 100 kHz and 105°C

Impedance Ratios: -40°C/20°C 6 and - - -

Leakage Current: .02CV+10 μ A

71.2 μ A after 2 Minutes

Load Life: 10000 hours at 105°C with 100 % of rated voltage and with 100 % of rated ripple current

Capacitance Change: $\leq$ 20% of initial measured value

Dissipation Factor: $\leq$ 200% of maximum specified value

Leakage Current: $\leq$ 100% of maximum specified value

Frequency Multipliers:

50 HZ	120 HZ	400 HZ	1 KHZ	10 KHZ	100 KHZ
0.4	0.5	0.5	0.8	0.9	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): 10 mm + 0.5 mm

Length (L): 20 mm + 2 mm

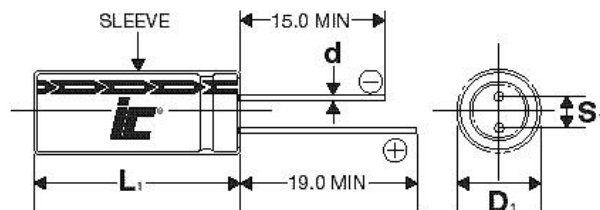
Lead Spacing (S): 5 mm +/- 0.5 mm

Coating: GreenPET 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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