

# PART NUMBER: 686LMU450M2BD

SNAP-IN/ SNAP MOUNT

Parts are RoHS compliant

Date code when parts became RoHS: 14

## FEATURES

bulk filtering, high current, snap mount leads, 105C

## APPLICATIONS

Bulk filtering, switching power supplies

## ELECTRICAL SPECIFICATIONS

Capacitance: 68  $\mu$ F

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

Temperature Range: -40°C to +105°C

ESR: 4878.54 milliOhms Max at 20°C and 120 Hz

Impedance: N/A

Tolerance: -20 % , +20 %

WVDC: 450 Volts DC

SVDC: 500 Volts DC

Ripple Current: 0.42 A at 120 Hz and 105°C

Impedance Ratios:

-25°C/20°C - 8

-40°C/20°C - -

Leakage Current: .02CV or 2000uA, whichever is less  
2000 uA after 5 Minutes

Load Life: 2000 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

### Ripple Current Multipliers

#### Frequency Multipliers:

50 Hz	120 Hz	400 Hz	1 kHz	10 kHz	100 kHz
0.8	1	1	1.3	1.47	1.47

#### Temperature Multipliers:

45°C	60°C	70°C	65°C	75°C	85°C	105°C	125°C
2	1.9	1.7	1.8	1.4	1.4	1	0

## PHYSICAL DIMENSIONS

Diameter (D): 22 mm + 1 mm

Length (L): 30 mm + 2 mm

Lead Spacing (S): 10 mm +/- 0.1 mm

Coating: Brown PET sleeving

Lead Wire Diameter (d): 1.5 mm +/- 0.5 mm

Lead Length: 6.3 mm +/- 1 mm

Lead Finish: Matte Tin

