



# 687AXZ016M

SURFACE MOUNT

Parts are RoHS compliant

Date code when parts became RoHS: 23

**APPLICATIONS:** switching power supplies, Input filtering

## ELECTRICAL SPECIFICATIONS

**Capacitance:** 680 uF

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

**Temperature Range:** -55°C to +105°C

**ESR:** 0.488 Ohms Max at 20°C and 120 Hz

**Impedance:** 0.09Ohms100 kHz20°C

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

**WVDC:** 16 Volts DC

**SVDC:** 20 Volts DC

**Ripple Current:** 850 mA at 100 kHz and 20°C

**Impedance Ratios:**-40°C/20°C 2 and -55°C/20°C - 4

**Leakage Current:** .01CV or 3uA, whichever is greater  
108.8 uA after 2 Minutes

**Load Life:** 2000 hours at 105°C with 100 % of rated voltage and with 0 % of rated ripple current

**Capacitance Change:** ≤30% of initial measured value

**Dissipation Factor:** ≤300% 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
0.64	0.5	0.64	0.83	0.83	1

### 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):** 10 mm + 0.5 mm

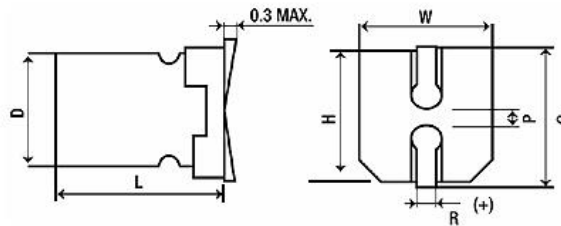
**Length (L):** 10.5 mm + 0.5 mm

**Lead Spacing (S):** 4.6 mm +/- 0.2 mm

**Lead Wire Diameter (d):** 0.95 mm +/- 0.15 mm

**Lead Length:** 3.2 mm +/- 0.2 mm

**Lead Finish:** Matte Tin



3757 W. Touhy Ave. Lincolnwood, IL 60712 (847) 675-1760 FAX (847) 673-2850  
Illinois Capacitor (HK) Ltd., Tel: 85227930931, Fax: 85227930731, [www.ilicap.com.hk](http://www.ilicap.com.hk)  
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