



# 157SMH016M

SURFACE MOUNT

Parts are RoHS compliant

Date code when parts became RoHS: 26

**APPLICATIONS:** Bypass, coupling, filtering, general purpose

## ELECTRICAL SPECIFICATIONS

**Capacitance:** 150 uF

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

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

**ESR:** 2.21 Ohms Max at 20°C and 120 Hz

**Impedance:** N/A

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

**WVDC:** 16 Volts DC

**SVDC:** 20 Volts DC

**Ripple Current:** 95 mA at 120 Hz and 105°C

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

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

**Load Life:** 1000 hours at 105°C with 100 % of rated voltage and with 0 % 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 |
|-------|--------|--------|-------|--------|---------|
| 0.7   | 1      | 1.17   | 1.36  | 1.5    | 1.5     |

### 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):** 6.3 mm + 0.5 mm

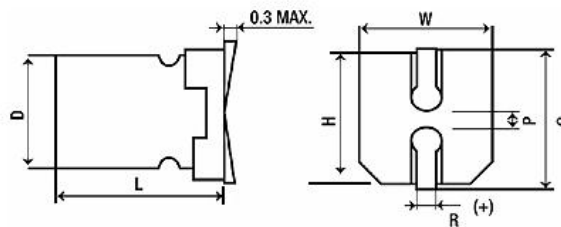
**Length (L):** 7.7 mm + 0.3 mm

**Lead Spacing (S):** 2.2 mm +/- 0.2 mm

**Lead Wire Diameter (d):** 0.65 mm +/- 0.15 mm

**Lead Length:** 2.4 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.illcap.com.hk](http://www.illcap.com.hk)  
© Copyright 2017 Illinois Capacitor. A division of Cornell Dubilier. All Rights Reserved