



105SMH050M

SURFACE MOUNT

Parts are RoHS compliant

Date code when parts became RoHS: 23

APPLICATIONS: Bypass, coupling, filtering, general purpose

ELECTRICAL SPECIFICATIONS

Capacitance: 1 uF

Dissipation Factor: 0.12 Max at 120 Hz and 20°C

Temperature Range: -55°C to +105°C

Impedance: N/A

Tolerance: -20 %, +20 %

WVDC: 50 Volts DC

SVDC: 63 Volts DC

Ripple Current: 10 mA at 120 Hz and 105°C

Impedance Ratios: -25°C/20°C 2 and -40°C/20°C - 3

Leakage Current: .01CV or 3uA, whichever is greater
3 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): 4 mm + 0.5 mm

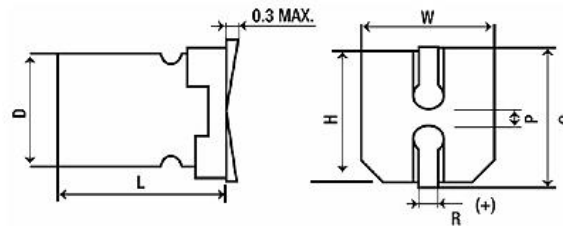
Length (L): 5.4 mm + 0.2 mm

Lead Spacing (S): 1 mm +/- 0.2 mm

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

Lead Length: 3 mm +/- 0.2 mm

Lead Finish: Matte Tin



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