



# 105NPS050M

SURFACE MOUNT

Parts are RoHS compliant

Date code when parts became RoHS: 26

**APPLICATIONS:** non-polar circuits, speaker crossovers

## ELECTRICAL SPECIFICATIONS

**Capacitance:** 1 uF

**Dissipation Factor:** 0.14 Max at 120 Hz and 20°C

**Temperature Range:** -40°C to +85°C

**Impedance:** N/A

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

**WVDC:** 50 Volts DC

**SVDC:** 63 Volts DC

**Ripple Current:** 10 mA at 120 Hz and 85°C

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

**Leakage Current:** .03CV or 4uA, whichever is greater  
7.5 uA after 1 Minute

**Load Life:** 1000 hours at 85°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

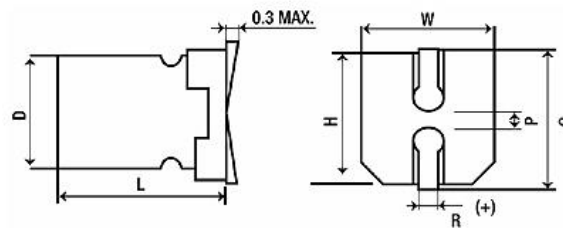
**Length (L):** 5.4 mm + 0.2 mm

**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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