# RADIAL TYPE

# SH Series

7mmL 105°C, Wide Temperature Range

JAMICON®

SS ⇐ SH ⇒ SL

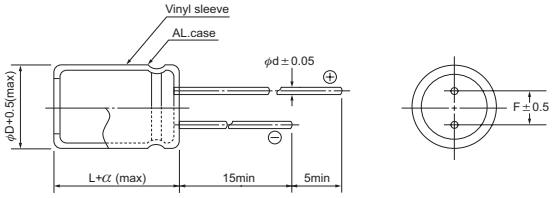
- Wide temperature range series with 7mm height.

## SPECIFICATION

| Item | Characteristic | | | | | | |
|---|---|---|---|---|---|---|---|
| Operation Temperature Range | -55 ~ +105°C | | | | | | |
| Rated Working Voltage | 6.3 ~ 50VDC | | | | | | |
| Capacitance Tolerance (120Hz 20°C) | ±20%(M) | | | | | | |
| Leakage Current (20°C) | I ≦0.01CV or 3 (μA)<br>*Whichever is greater after 2 minutes<br>I : Leakage Current (μA)<br>C : Rated Capacitance (μF)<br>V : Working Voltage (V) | | | | | | |
| Surge Voltage (20°C) | W.V. | 6.3 | 10 | 16 | 25 | 35 | 50 |
| | S.V. | 8 | 13 | 20 | 32 | 44 | 63 |
| Dissipation Factor (tan δ) (120Hz 20°C) | W.V. | 6.3 | 10 | 16 | 25 | 35 | 50 |
| | tan δ | 0.24 | 0.21 | 0.18 | 0.15 | 0.13 | 0.12 |
| Low Temperature Stability | Impedance ratio at 120Hz | | | | | | |
| | Rated Voltage (V) | 6.3 | 10 | 16 | 25 | 35 | 50 |
| | -25°C / +20°C | 3 | 2 | 2 | 2 | 2 | 2 |
| | -40°C / +20°C | 6 | 5 | 4 | 3 | 3 | 3 |
| Load Life | After 1000 hours application of W.V. at +105°C, the capacitor shall meet the following limits. | | | | | | |
| | Capacitance Change | ≦±25% of initial value | | | | | |
| | Dissipation Factor | ≦200% of initial specified value | | | | | |
| | Leakage current | ≦initial specified value | | | | | |
| Shelf Life | At +105°C no voltage application after 1000 hours the capacitor shall meet the limits for load life characteristics. (with voltage treatment) | | | | | | |

## DIMENSIONS (mm)

| φD | 4 | 5 | 6.3 | 8 |
|---|---|---|---|---|
| F | 1.5 | 2.0 | 2.5 | 3.5 |
| d | 0.45 | 0.45 | 0.45 | 0.50 |
| α | 1.0 | 1.0 | 1.0 | 1.0 |




## CASE SIZE & MAX RIPPLE CURRENT

Case size : D x L (mm)
Max ripple current : mA(rms) 105°C 120Hz

| V(Code) / Item / Code / μF | | 6.3 (0J) | | 10 (1A) | | 16 (1C) | | 25 (1E) | | 35 (1V) | | 50 (1H) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | DxL | R.C. | DxL | R.C. | DxL | R.C. | DxL | R.C. | DxL | R.C. | DxL | R.C. |
| 0.1 | 0R1 | | | | | | | | | | → | 4x7 | 1 |
| 0.22 | R22 | | | | | | | | | | → | 4x7 | 2.3 |
| 0.33 | R33 | | | | | | | | | | → | 4x7 | 3.5 |
| 0.47 | R47 | | | | | | | | | | → | 4x7 | 5 |
| 1.0 | 010 | | | | | | | | | | → | 4x7 | 10 |
| 2.2 | 2R2 | | | | | | | | | | → | 4x7 | 19 |
| 3.3 | 3R3 | | | | | | | | | | → | 4x7 | 24 |
| 4.7 | 4R7 | | | | | | | | → | 4x7 | 24 | 5x7 | 29 |
| 10 | 100 | | | | → | 4x7 | 29 | 5x7 | 33 | 5x7 | 36 | 6.3x7 | 44 |
| 22 | 220 | 4x7 | 34 | 5x7 | 38 | 5x7 | 44 | 6.3x7 | 51 | 6.3x7 | 60 | 8x7 | 65 |
| 33 | 330 | 5x7 | 42 | 5x7 | 47 | 6.3x7 | 60 | 6.3x7 | 65 | 8x7 | 72 | | |
| 47 | 470 | 5x7 | 50 | 6.3x7 | 65 | 6.3x7 | 70 | 8x7 | 78 | | | | |
| 100 | 101 | 6.3x7 | 77 | 6.3x7 | 87 | 6.3x7 | 90 | | | | | | |
| 220 | 221 | 8x7 | 130 | 8x7 | 140 | | | | | | | | |

All blank voltage on sleeve marking is the same voltage as" → "point to.