



RoHS Compliant ALUMINIUM ELECTROLYTIC CAPACITOR

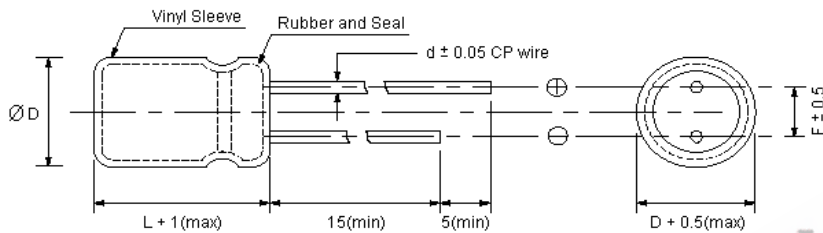
SS Series

■ **FEATURES**

- ◆ 7mm height to meet the requirement of smaller, thinner electronic products
- ◆ Applications for VTR, calculators, micro video and audio products, etc.



■ **OUTLINE**



| | mm | | | |
|---|------|-----|------|-----|
| D | 4 | 5 | 6.3 | 8 |
| F | 1.5 | 2.0 | 2.5 | 3.5 |
| d | 0.45 | | 0.50 | |

■ **SPECIFICATIONS**

| Items | Characteristics | | | | | | | | |
|-------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------|------|------|---------------------------|------|------|------|------|
| Capacitance Tolerance (120Hz, 25°C) | ± 20% (M) | | | | | | | | |
| Rated Working Voltage Range | 4 ~ 63Vdc | | | | | | | | |
| Operation Temperature | -40°C ~ +85°C | | | | | | | | |
| Leakage Current (25°C) | (After 2 minutes applying the Dc working voltage) | | | | | | | | |
| | I ≤ 0.01CV or 3 (uA) | | | | | | | | |
| | ◆ I : Leakage Current (uA) | ◆ C : Rated Capacitance (uF) | | | ◆ V : Working Voltage (V) | | | | |
| Surge Voltage (25°C) | W.V. | 4 | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 |
| | S.V. | 5 | 8 | 13 | 20 | 32 | 44 | 63 | 79 |
| Dissipation Factor (120Hz, 25°C) | W.V. | 4 | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 |
| | tan δ | 0.35 | 0.24 | 0.20 | 0.16 | 0.14 | 0.12 | 0.10 | 0.10 |
| Temperature Characteristics | W.V. | 4 | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 |
| | - 25°C / + 25°C | 7 | 4 | 3 | 2 | 2 | 2 | 2 | 2 |
| | - 40°C / + 25°C | 15 | 8 | 6 | 4 | 4 | 3 | 3 | 3 |
| | ◆ Impedance ratio at 120Hz | | | | | | | | |
| Load Test | After 1000 hours application of WV at +85°C, the capacitor shall meet the following limits: | | | | | | | | |
| | Capacitance Change | ≤ ± 20% of initial value | | | | | | | |
| | tan δ | ≤ 200% of initial specified value | | | | | | | |
| | Leakage Current | ≤ initial specified value | | | | | | | |
| Shelf Test | After 500 hours, no voltage applied at + 85°C, the capacitor shall meet the following limits: | | | | | | | | |
| | Capacitance Change | ≤ ± 20% of initial value | | | | | | | |
| | tan δ | ≤ 200% of initial specified value | | | | | | | |
| | Leakage Current | ≤ 200% of initial specified value | | | | | | | |

DB LECTRO^U

■ DIMENSIONS

D x L (mm)

| uF \ WV | 4 | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0.1 | | | | | |] | 4 x 7 | 4 x 7 |
| 0.22 | | | | | |] | 4 x 7 | 4 x 7 |
| 0.33 | | | | | |] | 4 x 7 | 4 x 7 |
| 0.47 | | | | | |] | 4 x 7 | 4 x 7 |
| 1 | | | | | |] | 4 x 7 | 4 x 7 |
| 2.2 | | | | | |] | 4 x 7 | 4 x 7 |
| 3.3 | | | | | |] | 4 x 7 | 4 x 7 |
| 4.7 | | | | | |] | 4 x 7 | 4 x 7 |
| 10 | | |] | 4 x 7 | 4 x 7 | 4 x 7 | 5 x 7 | 5 x 7 |
| 22 | |] | 4 x 7 | 4 x 7 | 5 x 7 | 5 x 7 | 6.3 x 7 | 6.3 x 7 |
| 33 | |] | 4 x 7 | 4 x 7 | 5 x 7 | 6.3 x 7 | 8 x 7 | |
| 47 | |] | 4 x 7 | 5 x 7 | 6.3 x 7 | 6.3 x 7 | | |
| 100 | 5 x 7 | 5 x 7 | 5 x 7 | 6.3 x 7 | 6.3 x 7 | | | |
| 220 | 6.3 x 7 | 6.3 x 7 | 6.3 x 7 | 8 x 7 | | | | |
| 330 | 6.3 x 7 | 8 x 7 | 8 x 7 | | | | | |
| 470 | 8 x 7 | 8 x 7 | | | | | | |

■ PERMISSIBLE RIPPLE CURRENT

mA (rms) at 120Hz 85°C

| uF \ WV | 4 | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 |
|---------|-----|-----|-----|-----|-----|----|----|----|
| 0.1 | | | | | |] | 3 | 4 |
| 0.22 | | | | | |] | 3 | 4 |
| 0.33 | | | | | |] | 5 | 6 |
| 0.47 | | | | | |] | 6 | 7 |
| 1 | | | | | |] | 10 | 12 |
| 2.2 | | | | | |] | 18 | 20 |
| 3.3 | | | | | |] | 22 | 25 |
| 4.7 | | | | | |] | 27 | 31 |
| 10 | | |] | 28 | 31 | 34 | 42 | 47 |
| 22 | |] | 36 | 42 | 48 | 54 | 58 | 83 |
| 33 | |] | 45 | 54 | 60 | 69 | 95 | |
| 47 | |] | 56 | 65 | 86 | 91 | | |
| 100 | 60 | 73 | 80 | 93 | 102 | | | |
| 220 | 112 | 135 | 145 | 170 | | | | |
| 330 | 128 | 150 | 184 | | | | | |
| 470 | 155 | 190 | | | | | | |