FINAL ACCEPTED ORDER DATE [2012/09]

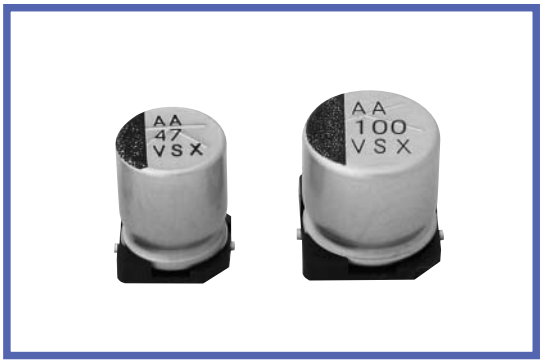
Rubycon

# CHIP ALUMINUM ELECTROLYTIC CAPACITORS SXV

## SXV SERIES

Previous Series

**125°C High Temperature, Lead Free Reflow Soldering.**




## ◆FEATURES

- Load Life : 125°C 1000 hours.
- Lead free reflow soldering is available.
- Available for high density mounting.
- RoHS compliance.

## ◆SPECIFICATIONS

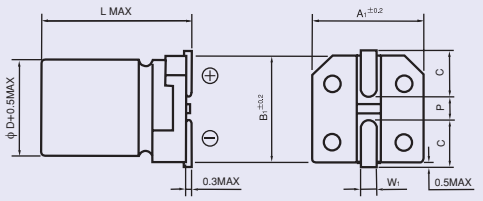
| Items | Characteristics |
|---|---|
| Category Temperature Range | −40～+125°C |
| Rated Voltage Range | 10～50V.DC |
| Capacitance Tolerance | ±20% (20°C, 120Hz) |
| Leakage Current(MAX) | I=0.01CV or 3 μA whichever is greater. (After 2 minutes application of rated voltage)<br>I=Leakage Current(μA) C=Rated Capacitance(μF) V=Rated Voltage(V) |
| (tanδ) Dissipation Factor(MAX) | (20°C, 120Hz) |
| Endurance | After applying rated voltage with rated ripple current for 1000 hrs at 125°C, the capacitors shall meet the following requirements. |
| Low Temperature Stability Impedance Ratio(MAX) | (120Hz) |

| Rated Voltage (V) | 10 | 16 | 25 | 35 | 50 |
|---|---|---|---|---|---|
| tan δ | 0.35 | 0.26 | 0.20 | 0.17 | 0.15 |

| Capacitance Change | Within ±30% of the initial value. |
|---|---|
| Dissipation Factor | Not more than 300% of the specified value. |
| Leakage Current | Not more than the specified value. |

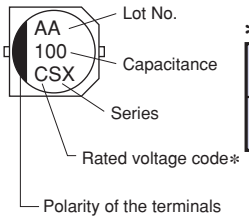
| Rated Voltage (V) | 10 | 16 | 25 | 35 | 50 |
|---|---|---|---|---|---|
| Z(−25°C)/Z(20°C) | 8 | 8 | 4 | 3 | 3 |

## ◆DIMENSIONS (mm)




| φD | L | A1 | B1 | C | W1 | P |
|---|---|---|---|---|---|---|
| 8 | 10.5 | 8.3 | 8.3 | 2.9 | 0.8～1.1 | 3.1 |
| 10 | 10.5 | 10.3 | 10.3 | 3.2 | 0.8～1.1 | 4.5 |

## ◆MARKING




*Voltage Code

| Rated Voltage (V) | 10 | 16 | 25 | 35 | 50 |
|---|---|---|---|---|---|
| Rated Voltage code | A | C | E | V | H |

## ◆MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

| Frequency (Hz) | | 60(50) | 120 | 500 | 1k | 10k≦ |
|---|---|---|---|---|---|---|
| Coefficient | 10～47 μF | 0.80 | 1.00 | 1.20 | 1.30 | 1.50 |
| | 100～470 μF | 0.80 | 1.00 | 1.10 | 1.15 | 1.20 |

## ◆STANDARD SIZE

Size φ D×L(mm), Ripple Current (mA r.m.s./125°c, 120Hz)

| WV (V.DC) | Cap (μF) | Size (φ DxL) | Rated Ripple Current |
|---|---|---|---|
| 10 (1A) | 220 | 8×10.5 | 120 |
| | 330 | 8×10.5 | 135 |
| | | 10×10.5 | 160 |
| | 470 | 10×10.5 | 175 |
| 16 (1C) | 100 | 8×10.5 | 95 |
| | 220 | 8×10.5 | 125 |
| | | 10×10.5 | 140 |
| | 330 | 10×10.5 | 165 |

| WV (V.DC) | Cap (μF) | Size (φ DxL) | Rated Ripple Current |
|---|---|---|---|
| 25 (1E) | 47 | 8×10.5 | 70 |
| | 100 | 8×10.5 | 95 |
| | | 10×10.5 | 110 |
| | 220 | 10×10.5 | 145 |
| 35 (1V) | 33 | 8×10.5 | 60 |
| | 47 | 8×10.5 | 70 |
| | | 10×10.5 | 80 |
| | 100 | 10×10.5 | 110 |

| WV (V.DC) | Cap (μF) | Size (φ DxL) | Rated Ripple Current |
|---|---|---|---|
| 50 (1H) | 10 | 8×10.5 | 35 |
| | 22 | 8×10.5 | 50 |
| | 33 | 8×10.5 | 60 |
| | | 10×10.5 | 65 |
| | 47 | 10×10.5 | 80 |

## ◆PART NUMBER

| □□□ | SXV | □□□□□ | □ | □□□ | □□ | D×L |
|---|---|---|---|---|---|---|
| Rated Voltage | Series | Rated Capacitance | Capacitance Tolerance | Option | Lead Forming | Case Size |