

# ALUMINUM ELECTROLYTIC CAPACITORS SPECIFICATION SHEET

|                   |                           |                |
|-------------------|---------------------------|----------------|
| CUSTOMER PART No. |                           |                |
| Rubycon PART No.  | 450 CXW 100 M EFS 18X31.5 |                |
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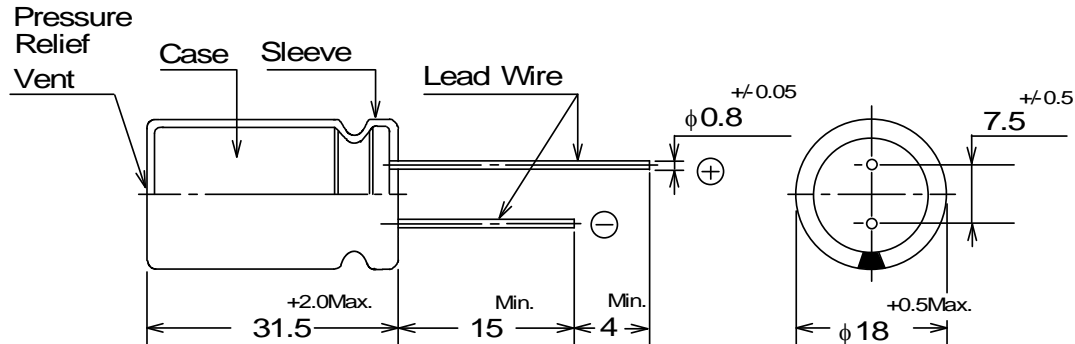
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|          |  |

Fixed aluminum electrolytic capacitors for use in electronic equipment

|                             |                           |
|-----------------------------|---------------------------|
| Customer Part Number        |                           |
| Rubycon Part Number         | 450 CXW 100 M EFS 18X31.5 |
| Style                       | CE 04                     |
| Operating Temperature Range | -25°C~+105°C              |
| The General Standard        | JIS C5141(1991)           |

### 1. Dimensions (unit:mm)



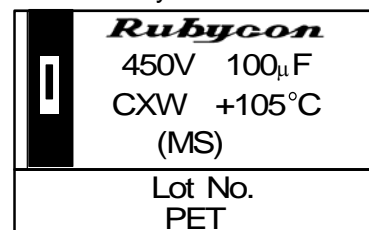
|            | Sleeve | Case | Seal   | Lead Wire             |
|------------|--------|------|--------|-----------------------|
| Material   | P.E.T. | Al   | Rubber | CP Wire (Tin plating) |
| Appearance | Black  |      |        |                       |

### 2. Electrical Performance

| Nominal Capacitance<br>( $\mu\text{F}$ ) | Capacitance Tolerance<br>(%) | Rated Voltage<br>(V.DC) | Surge Voltage<br>(V.DC) | Leakage Current<br>Max./5min.<br>( $\mu\text{A}$ ) | $\tan \delta$<br>Max. | Rated Ripple Current<br>(A r.m.s.) |
|--|------------------------------|-------------------------|-------------------------|--|-----------------------|------------------------------------|
| 20°C/120Hz                               | 20°C/120Hz                   |                         |                         | 20°C   | 20°C/120Hz            | 105°C/120Hz                        |
| 100                                      | -20 ~ +20                    | 450                     | 500                     | 636  | 0.20                  | 0.71                               |

3. Marking: Unless otherwise specified, capacitor shall be clearly marked on its body.

- (1) Brand
- (2) Rated Voltage
- (3) Nominal Capacitance
- (4) Series
- (5) Maximum Operating Temperature
- (6) Polarity
- (7) Lot No.
- (8) Sleeve Material



### 4. Temperature Characteristics (Impedance ratio at 120Hz)

$$Z (-25^{\circ}\text{C})/Z (20^{\circ}\text{C}): \quad 8\text{MAX.}$$

### 5. Load Life Test

After 5000<sup>+72</sup><sub>0</sub> hours application of D.C. rated working voltage with full rated ripple current at 105±2°C, the capacitor shall meet the following requirements.

- Capacitance Change : Within ±20% of the initial value  
Dissipation Factor : Not more than 200% of the specified value  
Leakage Current : Not more than the specified value

CXW SERIES

**Rubycon**  
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## 6. "S" counter-measure

## &lt;Condition&gt;

DC voltage as high as 1.5 times of the rated voltage is applied to the capacitor in temperature range of 15 to 35 deg. C.

The maximum DC current is 1A.

Number of tested specimens : n=10

## &lt;Criteria&gt;

More than 60% of the tested capacitors do not cause short circuit even if electrolyte is released from opening of operated pressure relief vent. (Normal vent operation) More than 80% of accumulated number of the tested capacitors in certain period demonstrate normal vent operation without short circuit.

## 7. Notes (on the use of aluminum electrolytic capacitors)

## (1) Charge and discharge

Do not use for a circuit where rapid charge and discharge is frequently repeated.

## (2) Insulation

Aluminum electrolytic capacitors are covered with P.E.T. sleeve which purpose is mainly indication of necessary items.

The case of capacitor and the cathode terminal are not insulated.

## (3) Polarity

Please confirm the polarity before use because this capacitor has polarity.

\*Guide to application except the above are described in our catalog and EIAJ RCR-2367C.

EIAJ RCR-2367C: "Safety Application Guide for fixed aluminum electrolytic capacitors for use in electronic equipment"

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