



# Aluminum Electrolytic Capacitors

**RXQ**

## Features

- 105°C, 8,000 ~ 10,000 hours assured
- Suitable for switching power supplies, UPS, Ballast
- Smaller case size current
- RoHS Compliance



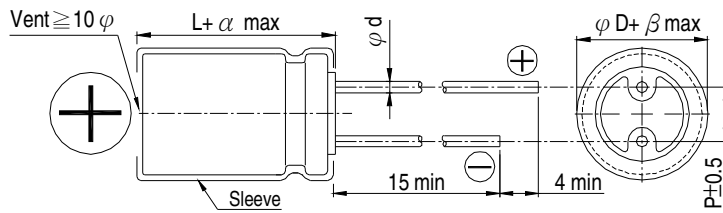
Sleeve & Marking Color: Black & Golden

## SPECIFICATIONS

| Items  | Performance  |                 |  |                                   |      |         |      |     |
|--|--|-----------------|--|-----------------------------------|------|---------|------|-----|
| Category Temperature Range   | 160 ~ 400V   |                 |  | 450V                              |      |         |      |     |
|  | -40°C ~ +105°C   |                 |  | -25°C ~ +105°C                    |      |         |      |     |
| Capacitance Tolerance  | ±20% (at 120Hz, 20°C)  |                 |  |                                   |      |         |      |     |
| Leakage Current (at 20°C)  | Time   |                 | after 5 minutes  |                                   |      |         |      |     |
|  | Leakage Current  |                 | CV ≤ 1,000<br>I = 0.03CV + 15(μA)                      | CV > 1,000<br>I = 0.02CV + 25(μA) |      |         |      |     |
| Where, C = rated capacitance in μF V = rated DC working voltage in V |  |                 |  |                                   |      |         |      |     |
| Dissipation Factor<br>(Tan δ at 120Hz, 20°C)                         | Rated Voltage  | 160             | 200  | 250                               | 350  | 400     | 450  |     |
|  | Tan δ (max)  | 0.20            | 0.20   | 0.20                              | 0.24 | 0.24    | 0.24 |     |
| Low Temperature<br>Characteristics (at 120Hz)                        | Impedance ratio shall not exceed the values given in the table below.  |                 |  |                                   |      |         |      |     |
|  | Rated Voltage  |                 | 160  | 200                               | 250  | 350     | 400  | 450 |
|  | Impedance Ratio  | Z(-25)/Z(+20°C) | 3  | 3                                 | 3    | 5       | 5    | 6   |
| Z(-40)/Z(+20°C)  |  | 6               | 6  | 6                                 | 6    | 6       | -    |     |
| Endurance  | Test Time  |                 | 8,000 Hrs for φD = 10mm;<br>10,000 Hrs for φD ≥ 12.5mm |                                   |      |         |      |     |
|  | Capacitance Change   |                 | Within ±20% of initial value                           |                                   |      |         |      |     |
|  | Dissipation Factor   |                 | Less than 200% of specified value                      |                                   |      |         |      |     |
|  | Leakage Current  |                 | Within specified value                                 |                                   |      |         |      |     |
|  | * The above specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied with rated ripple current for 8,000 / 10,000 hours at 105°C.  |                 |  |                                   |      |         |      |     |
| Shelf Life Test  | Test Time  |                 | 1,000 Hrs  |                                   |      |         |      |     |
|  | Capacitance Change   |                 | With in ±20% of initial value                          |                                   |      |         |      |     |
|  | Dissipation Factor   |                 | Less than 200% of specified value                      |                                   |      |         |      |     |
|  | Leakage Current  |                 | Less than 500% of specified value                      |                                   |      |         |      |     |
|  | * The above specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 105°C without voltage applied. The rated voltage shall be applied to the capacitors before the measurements (Refer to JIS C 5101-4 4.1). |                 |  |                                   |      |         |      |     |
| Ripple Current &<br>Frequency Multipliers                            | Frequency (Hz)   |                 | 120  | 1k                                | 10k  | 100k up |      |     |
|  | Cap. (μF)  |                 | 1.00   | 1.75                              | 2.25 | 2.50    |      |     |
|  | 6.8 ~ 82   |                 | 1.00   | 1.67                              | 2.05 | 2.25    |      |     |
| 100 up   |  | 1.00            | 1.67   | 2.05                              | 2.25 |         |      |     |



## DIAGRAM OF DIMENSIONS



Unit: mm

### LEAD SPACING AND DIAMETER

| $\phi D$ | 10  | 12.5 | 16  | 18 |
|----------|-----|------|-----|----|
| P        | 5.0 |      | 7.5 |    |
| $\phi d$ | 0.6 |      | 0.8 |    |
| $\alpha$ | 1.5 |      |     |    |
| $\beta$  | 0.5 |      |     |    |

Dimension:  $\phi D \times L$ (mm)

Ripple Current: mA/rms at 105°C

## DIMENSION & PERMISSIBLE RIPPLE CURRENT

| V.DC<br>Contents<br>$\mu F$ | 160V (2C)         |                |                |                   | 200V (2D)      |         |                   |                | 250V (2E) |                   |                |                | 350V (2V)         |                |                |                   | 400V (2G)      |         |  |  |
|-----------------------------|-------------------|----------------|----------------|-------------------|----------------|---------|-------------------|----------------|-----------|-------------------|----------------|----------------|-------------------|----------------|----------------|-------------------|----------------|---------|--|--|
|                             | $\phi D \times L$ | Ripple Current |                | $\phi D \times L$ | Ripple Current |         | $\phi D \times L$ | Ripple Current |           | $\phi D \times L$ | Ripple Current |                | $\phi D \times L$ | Ripple Current |                | $\phi D \times L$ | Ripple Current |         |  |  |
|                             |                   | 120 Hz         | 100k Hz        |                   | 120 Hz         | 100k Hz |                   | 120 Hz         | 100k Hz   |                   | 120 Hz         | 100k Hz        |                   | 120 Hz         | 100k Hz        |                   | 120 Hz         | 100k Hz |  |  |
| 6.8                         |                   |                |                |                   |                |         |                   |                |           | 10x16             | 110            | 275            | 10x16             | 110            | 275            |                   |                |         |  |  |
| 10                          | 10x16             | 125            | 313            | 10x16             | 125            | 313     | 10x20             | 140            | 350       | 10x20             | 140            | 350            | 10x20             | 140            | 350            |                   |                |         |  |  |
| 22                          | 10x20             | 200            | 500            | 10x20             | 200            | 500     | 10x20             | 200            | 500       | 12.5x20           | 260            | 650            | 12.5x20           | 260            | 650            |                   |                |         |  |  |
| 33                          | 10x20             | 250            | 625            | 10x20             | 260            | 650     | 12.5x20           | 320            | 800       | 16x20             | 360            | 900            | 16x20             | 360            | 900            |                   |                |         |  |  |
| 47                          | 10x20             | 300            | 750            | 12.5x20           | 390            | 975     | 12.5x20           | 390            | 975       | 16x20             | 430            | 1,075          | 16x25<br>18x20    | 470<br>450     | 1,175<br>1,125 |                   |                |         |  |  |
| 68                          | 12.5x20           | 470            | 1,175          | 12.5x20           | 470            | 1,175   | 16x20             | 520            | 1,300     | 16x25<br>18x20    | 560<br>550     | 1,400<br>1,375 | 18x25             | 585            | 1,463          |                   |                |         |  |  |
| 82                          | 12.5x20           | 510            | 1,275          | 16x20             | 550            | 1,375   | 16x20             | 550            | 1,375     | 18x25             | 610            | 1,525          | 18x25             | 610            | 1,525          |                   |                |         |  |  |
| 100                         | 12.5x25<br>16x20  | 620<br>630     | 1,395<br>1,418 | 16x20             | 630            | 1,418   | 16x25             | 680            | 1,530     | 18x25             | 700            | 1,575          | 18x31.5           | 765            | 1,721          |                   |                |         |  |  |
| 120                         |                   |                |                |                   |                |         |                   |                |           | 18x31.5           | 830            | 1,868          | 18x35.5           | 865            | 1,946          |                   |                |         |  |  |
| 150                         | 16x20             | 770            | 1,733          | 16x25             | 840            | 1,890   | 18x25             | 860            | 1,935     | 18x35.5           | 960            | 2,160          | 18x40             | 985            | 2,216          |                   |                |         |  |  |
| 220                         | 16x25             | 1,020          | 2,295          | 18x25             | 1,050          | 2,363   | 18x31.5           | 1,130          | 2,543     |                   |                |                |                   |                |                |                   |                |         |  |  |
| 330                         | 18x31.5           | 1,390          | 3,128          | 18x35.5           | 1,430          | 3,218   |                   |                |           |                   |                |                |                   |                |                |                   |                |         |  |  |

| V.DC<br>Contents<br>$\mu F$ | 450V (2W)         |                |            |  |
|-----------------------------|-------------------|----------------|------------|--|
|                             | $\phi D \times L$ | Ripple Current |            |  |
|                             |                   | 120 Hz         | 100k Hz    |  |
| 6.8                         | 10x20             | 110            | 275        |  |
| 10                          | 12.5x20           | 180            | 450        |  |
| 22                          | 16x20             | 290            | 725        |  |
| 33                          | 16x25<br>18x20    | 390<br>380     | 975<br>950 |  |
| 47                          | 18x25             | 480            | 1,200      |  |
| 68                          | 18x31.5           | 630            | 1,575      |  |
| 82                          | 18x35.5           | 715            | 1,788      |  |
| 100                         | 18x40             | 800            | 1,800      |  |

Remark: The case size of 16x20, 18x20 and 18x25 are used flat type rubber bung

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