

**Rubycon****RADIAL LEAD ALUMINUM ELECTROLYTIC CAPACITORS****JXF****JXF SERIES****UPGRADE**

## ◆ FEATURES

- Low Impedance, Wide Temperature Range
- Life:6000~8000Hours at 105°C
- AEC-Q200, RoHS Compliant



## ◆ SPECIFICATIONS

| Item                                            | Characteristics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |      |      |      |      |      |  |                        |                                   |                    |                                            |                 |                                    |           |                    |                  |      |         |      |      |      |      |      |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|------|------|--|------------------------|-----------------------------------|--------------------|--------------------------------------------|-----------------|------------------------------------|-----------|--------------------|------------------|------|---------|------|------|------|------|------|
| Temperature Range                               | -55~+105℃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |      |      |      |      |      |  |                        |                                   |                    |                                            |                 |                                    |           |                    |                  |      |         |      |      |      |      |      |
| Rated Voltage Range                             | 16~100Vdc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |      |      |      |      |      |  |                        |                                   |                    |                                            |                 |                                    |           |                    |                  |      |         |      |      |      |      |      |
| Capacitance Tolerance                           | ±20%(20℃, 120Hz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |      |      |      |      |      |  |                        |                                   |                    |                                            |                 |                                    |           |                    |                  |      |         |      |      |      |      |      |
| Leakage Current (MAX)                           | I=0.01CV after 2 minutes or 3 μ A (whichever is greater)<br>I=( μ A)                      C=( μ F)                      V=(Vdc)<br>Leakage Current              Capacitance              Rated Voltage                                                                                                                                                                                                                                                                                                                                                     |      |      |      |      |      |      |  |                        |                                   |                    |                                            |                 |                                    |           |                    |                  |      |         |      |      |      |      |      |
| Dissipation Factor (MAX)                        | <table><tr><td>(Vdc)<br/>Rated Voltage</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>80</td><td>100</td></tr><tr><td>tan δ</td><td>0.16</td><td>0.14</td><td>0.12</td><td>0.10</td><td>0.09</td><td>0.09</td><td>0.08</td></tr></table> (20℃, 120Hz)<br>When capacitance is over 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF.                                                                                                                                                                      |      |      |      |      |      |      |  | (Vdc)<br>Rated Voltage | 16                                | 25                 | 35                                         | 50              | 63                                 | 80        | 100                | tan δ            | 0.16 | 0.14    | 0.12 | 0.10 | 0.09 | 0.09 | 0.08 |
| (Vdc)<br>Rated Voltage                          | 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 25   | 35   | 50   | 63   | 80   | 100  |  |                        |                                   |                    |                                            |                 |                                    |           |                    |                  |      |         |      |      |      |      |      |
| tan δ                                           | 0.16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.14 | 0.12 | 0.10 | 0.09 | 0.09 | 0.08 |  |                        |                                   |                    |                                            |                 |                                    |           |                    |                  |      |         |      |      |      |      |      |
| Endurance (Life)                                | After applying rated voltage with rated ripple current for specified time at 105℃, the capacitors shall meet the following requirements. <table><tr><td>Capacitance Change</td><td>Within ±30% of the initial value.</td></tr><tr><td>Dissipation Factor</td><td>Not more than 300% of the specified value.</td></tr><tr><td>Leakage Current</td><td>Not more than the specified value.</td></tr></table> <table><tr><td>Case Size</td><td>(hrs)<br/>Life Time</td></tr><tr><td>φD≤10</td><td>6000</td></tr><tr><td>φD≥12.5</td><td>8000</td></tr></table> |      |      |      |      |      |      |  | 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. | Case Size | (hrs)<br>Life Time | φD≤10            | 6000 | φD≥12.5 | 8000 |      |      |      |      |
| 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |      |      |      |      |      |  |                        |                                   |                    |                                            |                 |                                    |           |                    |                  |      |         |      |      |      |      |      |
| Case Size                                       | (hrs)<br>Life Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |      |      |      |      |      |  |                        |                                   |                    |                                            |                 |                                    |           |                    |                  |      |         |      |      |      |      |      |
| φD≤10                                           | 6000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |      |      |      |      |      |  |                        |                                   |                    |                                            |                 |                                    |           |                    |                  |      |         |      |      |      |      |      |
| φD≥12.5                                         | 8000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |      |      |      |      |      |  |                        |                                   |                    |                                            |                 |                                    |           |                    |                  |      |         |      |      |      |      |      |
| Low Temperature Stability Impedance Ratio (MAX) | <table><tr><td>(Vdc)<br/>Rated Voltage</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>80</td><td>100</td></tr><tr><td>Z (-55℃)/Z (20℃)</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td></tr></table> (120Hz)                                                                                                                                                                                                                                                                                                     |      |      |      |      |      |      |  | (Vdc)<br>Rated Voltage | 16                                | 25                 | 35                                         | 50              | 63                                 | 80        | 100                | Z (-55℃)/Z (20℃) | 3    | 3       | 3    | 3    | 3    | 3    | 3    |
| (Vdc)<br>Rated Voltage                          | 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 25   | 35   | 50   | 63   | 80   | 100  |  |                        |                                   |                    |                                            |                 |                                    |           |                    |                  |      |         |      |      |      |      |      |
| Z (-55℃)/Z (20℃)                                | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3    | 3    | 3    | 3    | 3    | 3    |  |                        |                                   |                    |                                            |                 |                                    |           |                    |                  |      |         |      |      |      |      |      |

## ◆ MULTIPLIER FOR RIPPLE CURRENT

| f (Hz)<br>Frequency |                      | 120  | 1k   | 10k  | 100k≤ |
|---------------------|----------------------|------|------|------|-------|
| Coefficient         | 82 ~ 270 $\mu F$     | 0.50 | 0.73 | 0.92 | 1.00  |
|                     | 300 ~ 680 $\mu F$    | 0.55 | 0.77 | 0.94 | 1.00  |
|                     | 820 ~ 1800 $\mu F$   | 0.60 | 0.80 | 0.96 | 1.00  |
|                     | 2200 ~ 10000 $\mu F$ | 0.70 | 0.85 | 0.98 | 1.00  |

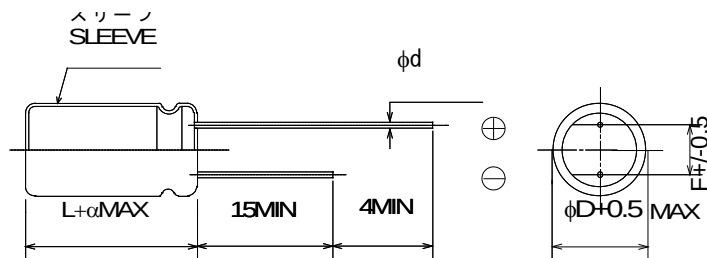
## ◆ PART NUMBER

|                         |        |                         |                       |        |                  |                   |
|-------------------------|--------|-------------------------|-----------------------|--------|------------------|-------------------|
| $\square\square\square$ | JXF    | $\square\square\square$ | M                     | EFC    | $\square\square$ | $\phi D \times L$ |
| Rated Voltage           | Series | Capacitance             | Capacitance Tolerance | Option | Lead Forming     | Case Size         |

\*Specifications subject to change without notice.

**Rubycon****RADIAL LEAD ALUMINUM ELECTROLYTIC CAPACITORS****JXF**

## ◆DIMENSIONS



|    |     |      |     |    |
|----|-----|------|-----|----|
| φD | 10  | 12.5 | 16  | 18 |
| φd | 0.6 |      | 0.8 |    |
| F  | 5   |      | 7.5 |    |
| α  | 2   |      |     |    |

## ◆ Standard size

| Rated Voltage (Vdc) | Capacitance (μF) | Size φD×L (mm) | Rated Ripple Current (mA r.m.s. /105°C,100kHz) | Impedance (Ω MAX) |               |
|---------------------|------------------|----------------|------------------------------------------------|-------------------|---------------|
|                     |                  |                |                                                | 20°C, 100kHz      | -10°C, 100kHz |
| 16                  | 1000             | 10×16          | 1180                                           | 0.061             | 0.122         |
|                     | 1500             | 10×20          | 1490                                           | 0.045             | 0.09          |
|                     | 1800             | 10×25          | 1710                                           | 0.037             | 0.074         |
|                     | 2200             | 12.5×20        | 1780                                           | 0.038             | 0.076         |
|                     | 3300             | 12.5×25        | 2170                                           | 0.030             | 0.06          |
|                     | 3900             | 12.5×30        | 2540                                           | 0.025             | 0.05          |
|                     | 3900             | 16×20          | 2210                                           | 0.028             | 0.056         |
|                     | 5600             | 16×25          | 2620                                           | 0.022             | 0.044         |
|                     | 5600             | 18×20          | 2490                                           | 0.028             | 0.056         |
|                     | 6800             | 16×30          | 3060                                           | 0.019             | 0.038         |
|                     | 8200             | 18×25          | 2790                                           | 0.020             | 0.04          |
|                     | 10000            | 18×30          | 3240                                           | 0.018             | 0.036         |
| 25                  | 680              | 10×16          | 1180                                           | 0.061             | 0.122         |
|                     | 1000             | 10×20          | 1490                                           | 0.045             | 0.09          |
|                     | 1200             | 10×25          | 1710                                           | 0.037             | 0.074         |
|                     | 1500             | 12.5×20        | 1780                                           | 0.038             | 0.076         |
|                     | 2200             | 12.5×25        | 2170                                           | 0.030             | 0.06          |
|                     | 2700             | 12.5×30        | 2540                                           | 0.025             | 0.05          |
|                     | 2700             | 16×20          | 2210                                           | 0.028             | 0.056         |
|                     | 3300             | 18×20          | 2490                                           | 0.028             | 0.056         |
|                     | 3900             | 16×25          | 2620                                           | 0.022             | 0.044         |
|                     | 4700             | 16×30          | 3060                                           | 0.019             | 0.038         |
|                     | 4700             | 18×25          | 2790                                           | 0.020             | 0.04          |
|                     | 5600             | 18×30          | 3240                                           | 0.018             | 0.036         |

| Rated Voltage (Vdc) | Capacitance (μF) | Size φD×L (mm) | Rated Ripple Current (mA r.m.s. /105°C,100kHz) | Impedance (Ω MAX) |               |
|---------------------|------------------|----------------|------------------------------------------------|-------------------|---------------|
|                     |                  |                |                                                | 20°C, 100kHz      | -10°C, 100kHz |
| 35                  | 470              | 10×16          | 1180                                           | 0.061             | 0.122         |
|                     | 680              | 10×20          | 1490                                           | 0.045             | 0.09          |
|                     | 820              | 10×25          | 1710                                           | 0.037             | 0.074         |
|                     | 1000             | 12.5×20        | 1780                                           | 0.038             | 0.076         |
|                     | 1200             | 12.5×25        | 2170                                           | 0.030             | 0.06          |
|                     | 1800             | 12.5×30        | 2540                                           | 0.025             | 0.05          |
|                     | 1800             | 16×20          | 2210                                           | 0.028             | 0.056         |
|                     | 2200             | 16×25          | 2620                                           | 0.022             | 0.044         |
|                     | 2200             | 18×20          | 2490                                           | 0.028             | 0.056         |
|                     | 3300             | 16×30          | 3060                                           | 0.019             | 0.038         |
|                     | 3300             | 18×25          | 2790                                           | 0.020             | 0.04          |
|                     | 3900             | 18×30          | 3240                                           | 0.018             | 0.036         |
| 50                  | 180              | 10×16          | 850                                            | 0.100             | 0.2           |
|                     | 270              | 10×20          | 1050                                           | 0.075             | 0.15          |
|                     | 330              | 10×25          | 1250                                           | 0.057             | 0.114         |
|                     | 390              | 12.5×20        | 1480                                           | 0.059             | 0.118         |
|                     | 560              | 12.5×25        | 1840                                           | 0.044             | 0.088         |
|                     | 680              | 12.5×30        | 2220                                           | 0.036             | 0.072         |
|                     | 820              | 16×20          | 1840                                           | 0.044             | 0.088         |
|                     | 1200             | 16×25          | 2240                                           | 0.032             | 0.064         |
|                     | 1200             | 18×20          | 2150                                           | 0.041             | 0.082         |
|                     | 1500             | 16×30          | 2700                                           | 0.026             | 0.052         |
|                     | 1500             | 18×25          | 2610                                           | 0.029             | 0.058         |
|                     | 2200             | 18×30          | 3000                                           | 0.024             | 0.048         |

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## RADIAL LEAD ALUMINUM ELECTROLYTIC CAPACITORS

JXF

## ◆ Standard size

| Rated Voltage<br>(Vdc) | Capacitance<br>(μF) | Size<br>φD×L (mm) | Rated Ripple Current<br>(mA r.m.s.<br>/105°C,100kHz) | Impedance<br>(Ω MAX) |                  |
|------------------------|---------------------|-------------------|------------------------------------------------------|----------------------|------------------|
|                        |                     |                   |                                                      | 20°C,<br>100kHz      | -10°C,<br>100kHz |
| 63                     | 120                 | 10 × 16           | 600                                                  | 0.160                | 0.32             |
|                        | 180                 | 10 × 20           | 890                                                  | 0.120                | 0.24             |
|                        | 220                 | 10 × 25           | 1050                                                 | 0.090                | 0.18             |
|                        | 330                 | 12.5 × 20         | 1290                                                 | 0.085                | 0.17             |
|                        | 390                 | 12.5 × 25         | 1720                                                 | 0.066                | 0.132            |
|                        | 470                 | 12.5 × 30         | 2090                                                 | 0.052                | 0.104            |
|                        | 560                 | 16 × 20           | 1770                                                 | 0.059                | 0.118            |
|                        | 820                 | 16 × 25           | 2160                                                 | 0.047                | 0.094            |
|                        | 820                 | 18 × 20           | 2290                                                 | 0.055                | 0.11             |
|                        | 1000                | 16 × 30           | 2670                                                 | 0.037                | 0.074            |
|                        | 1000                | 18 × 25           | 2590                                                 | 0.040                | 0.08             |
|                        | 1500                | 18 × 30           | 2950                                                 | 0.032                | 0.064            |
| NEW<br>80              | 100                 | 10 × 16           | 550                                                  | 0.330                | 0.81             |
|                        | 150                 | 10 × 20           | 780                                                  | 0.240                | 0.59             |
|                        | 180                 | 10 × 25           | 970                                                  | 0.190                | 0.47             |
|                        | 180                 | 12.5 × 20         | 1120                                                 | 0.165                | 0.39             |
|                        | 270                 | 12.5 × 25         | 1420                                                 | 0.120                | 0.28             |
|                        | 390                 | 12.5 × 30         | 1690                                                 | 0.097                | 0.23             |
|                        | 390                 | 16 × 20           | 1560                                                 | 0.110                | 0.26             |
|                        | 470                 | 18 × 20           | 1660                                                 | 0.090                | 0.19             |
|                        | 560                 | 16 × 25           | 1980                                                 | 0.081                | 0.19             |
|                        | 680                 | 16 × 30           | 2350                                                 | 0.064                | 0.15             |
|                        | 680                 | 18 × 25           | 2100                                                 | 0.070                | 0.15             |
|                        | 820                 | 18 × 30           | 2490                                                 | 0.058                | 0.13             |

| Rated Voltage<br>(Vdc) | Capacitance<br>(μF) | Size<br>φD×L (mm) | Rated Ripple Current<br>(mA r.m.s.<br>/105°C,100kHz) | Impedance<br>(Ω MAX) |                  |
|------------------------|---------------------|-------------------|------------------------------------------------------|----------------------|------------------|
|                        |                     |                   |                                                      | 20°C,<br>100kHz      | -10°C,<br>100kHz |
| NEW<br>100             | 68                  | 10 × 16           | 550                                                  | 0.330                | 0.81             |
|                        | 100                 | 10 × 20           | 780                                                  | 0.240                | 0.59             |
|                        | 120                 | 10 × 25           | 970                                                  | 0.190                | 0.47             |
|                        | 120                 | 12.5 × 20         | 1120                                                 | 0.165                | 0.39             |
|                        | 180                 | 12.5 × 25         | 1420                                                 | 0.120                | 0.28             |
|                        | 220                 | 12.5 × 30         | 1690                                                 | 0.097                | 0.23             |
|                        | 270                 | 16 × 20           | 1560                                                 | 0.110                | 0.26             |
|                        | 330                 | 16 × 25           | 1980                                                 | 0.081                | 0.19             |
|                        | 330                 | 18 × 20           | 1660                                                 | 0.090                | 0.19             |
|                        | 470                 | 16 × 30           | 2350                                                 | 0.064                | 0.15             |
|                        | 470                 | 18 × 25           | 2100                                                 | 0.070                | 0.15             |
|                        | 560                 | 18 × 30           | 2490                                                 | 0.058                | 0.13             |

\*Specifications subject to change without notice.

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