



## RXW Series

## Features

- 105°C, 4,000 ~ 7,000 hours assured
- Low ESR, suitable for switching power supplies
- Smaller size with large permissible ripple current
- RoHS Compliance

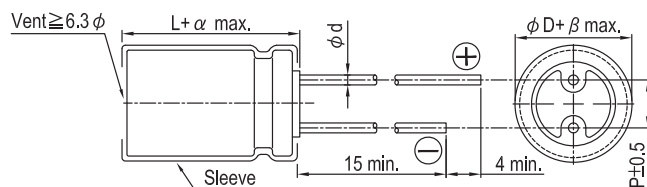


Sleeve &amp; Marking Color: Black &amp; Golden

## Specifications

|                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                        |                                                                                                                       |      |         |              |      |      |      |                       |     |    |     |         |            |      |      |      |            |          |      |      |      |      |           |      |      |      |     |             |     |      |      |     |                |     |      |      |     |
|---------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------|------|---------|--------------|------|------|------|-----------------------|-----|----|-----|---------|------------|------|------|------|------------|----------|------|------|------|------|-----------|------|------|------|-----|-------------|-----|------|------|-----|----------------|-----|------|------|-----|
| Items                                                                           | Performance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                                                                                                                       |      |         |              |      |      |      |                       |     |    |     |         |            |      |      |      |            |          |      |      |      |      |           |      |      |      |     |             |     |      |      |     |                |     |      |      |     |
| Category Temperature Range                                                      | 6.3 ~ 63V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |                                                                                                                       |      |         | 100V         |      |      |      |                       |     |    |     |         |            |      |      |      |            |          |      |      |      |      |           |      |      |      |     |             |     |      |      |     |                |     |      |      |     |
|                                                                                 | -55℃ ~ +105℃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                        |                                                                                                                       |      |         | -40℃ ~ +105℃ |      |      |      |                       |     |    |     |         |            |      |      |      |            |          |      |      |      |      |           |      |      |      |     |             |     |      |      |     |                |     |      |      |     |
| Capacitance Tolerance                                                           | ± 20 % (at 120Hz, 20℃)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |                                                                                                                       |      |         |              |      |      |      |                       |     |    |     |         |            |      |      |      |            |          |      |      |      |      |           |      |      |      |     |             |     |      |      |     |                |     |      |      |     |
| Leakage Current (at 20℃)                                                        | I = 0.01CV or 3 (μA) whichever is greater (after 2 minutes)<br>Where, C = rated capacitance in μF, V = rated DC working voltage in V                                                                                                                                                                                                                                                                                                                                                                                 |                        |                                                                                                                       |      |         |              |      |      |      |                       |     |    |     |         |            |      |      |      |            |          |      |      |      |      |           |      |      |      |     |             |     |      |      |     |                |     |      |      |     |
| Tanδ (at 120 Hz, 20℃)                                                           | <table><tr><td>Rated Voltage</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>100</td></tr><tr><td>Tanδ (max)</td><td>0.22</td><td>0.19</td><td>0.16</td><td>0.14</td><td>0.12</td><td>0.10</td><td>0.09</td><td>0.08</td></tr></table>                                                                                                                                                                                                                                         |                        |                                                                                                                       |      |         |              |      |      |      | Rated Voltage         | 6.3 | 10 | 16  | 25      | 35         | 50   | 63   | 100  | Tanδ (max) | 0.22     | 0.19 | 0.16 | 0.14 | 0.12 | 0.10      | 0.09 | 0.08 |      |     |             |     |      |      |     |                |     |      |      |     |
|                                                                                 | Rated Voltage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6.3                    | 10                                                                                                                    | 16   | 25      | 35           | 50   | 63   | 100  |                       |     |    |     |         |            |      |      |      |            |          |      |      |      |      |           |      |      |      |     |             |     |      |      |     |                |     |      |      |     |
|                                                                                 | Tanδ (max)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.22                   | 0.19                                                                                                                  | 0.16 | 0.14    | 0.12         | 0.10 | 0.09 | 0.08 |                       |     |    |     |         |            |      |      |      |            |          |      |      |      |      |           |      |      |      |     |             |     |      |      |     |                |     |      |      |     |
| When the capacitance exceeds 1000μF, 0.02 shall be added every 1000μF increase. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                        |                                                                                                                       |      |         |              |      |      |      |                       |     |    |     |         |            |      |      |      |            |          |      |      |      |      |           |      |      |      |     |             |     |      |      |     |                |     |      |      |     |
| Low Temperature Characteristics (at 120Hz)                                      | Impedance ratio shall not exceed the values given in the table below.                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |                                                                                                                       |      |         |              |      |      |      |                       |     |    |     |         |            |      |      |      |            |          |      |      |      |      |           |      |      |      |     |             |     |      |      |     |                |     |      |      |     |
|                                                                                 | Rated Voltage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                        | 6.3                                                                                                                   | 10   | 16      | 25           | 35   | 50   | 63   | 100                   |     |    |     |         |            |      |      |      |            |          |      |      |      |      |           |      |      |      |     |             |     |      |      |     |                |     |      |      |     |
|                                                                                 | Impedance Ratio                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Z(-55℃/-40℃) / Z(+20℃) | 3                                                                                                                     | 3    | 3       | 3            | 3    | 3    | 3    | 3                     |     |    |     |         |            |      |      |      |            |          |      |      |      |      |           |      |      |      |     |             |     |      |      |     |                |     |      |      |     |
| Endurance                                                                       | Test Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        | 4,000 Hrs for ϕ D ≤ 6.3 mm;<br>5,000 Hrs for ϕ D = 8 mm;<br>6,000 Hrs for ϕ D = 10 mm;<br>7,000 Hrs for ϕ D ≥ 12.5 mm |      |         |              |      |      |      |                       |     |    |     |         |            |      |      |      |            |          |      |      |      |      |           |      |      |      |     |             |     |      |      |     |                |     |      |      |     |
|                                                                                 | Capacitance Change                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                        | Within ±25% of initial value                                                                                          |      |         |              |      |      |      |                       |     |    |     |         |            |      |      |      |            |          |      |      |      |      |           |      |      |      |     |             |     |      |      |     |                |     |      |      |     |
|                                                                                 | Tanδ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        | Less than 200% of specified value                                                                                     |      |         |              |      |      |      |                       |     |    |     |         |            |      |      |      |            |          |      |      |      |      |           |      |      |      |     |             |     |      |      |     |                |     |      |      |     |
|                                                                                 | Leakage Current                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                        | Within specified value                                                                                                |      |         |              |      |      |      |                       |     |    |     |         |            |      |      |      |            |          |      |      |      |      |           |      |      |      |     |             |     |      |      |     |                |     |      |      |     |
|                                                                                 | * The above specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage applied with rated ripple current for 4,000 ~ 7,000 hours at 105℃.                                                                                                                                                                                                                                                                                                                                     |                        |                                                                                                                       |      |         |              |      |      |      |                       |     |    |     |         |            |      |      |      |            |          |      |      |      |      |           |      |      |      |     |             |     |      |      |     |                |     |      |      |     |
| Shelf Life Test                                                                 | Test Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        | 1,000 Hrs                                                                                                             |      |         |              |      |      |      |                       |     |    |     |         |            |      |      |      |            |          |      |      |      |      |           |      |      |      |     |             |     |      |      |     |                |     |      |      |     |
|                                                                                 | Capacitance Change                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                        | Within ±25% of initial value                                                                                          |      |         |              |      |      |      |                       |     |    |     |         |            |      |      |      |            |          |      |      |      |      |           |      |      |      |     |             |     |      |      |     |                |     |      |      |     |
|                                                                                 | Tanδ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        | Less than 200% of specified value                                                                                     |      |         |              |      |      |      |                       |     |    |     |         |            |      |      |      |            |          |      |      |      |      |           |      |      |      |     |             |     |      |      |     |                |     |      |      |     |
|                                                                                 | Leakage Current                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                        | Within specified value                                                                                                |      |         |              |      |      |      |                       |     |    |     |         |            |      |      |      |            |          |      |      |      |      |           |      |      |      |     |             |     |      |      |     |                |     |      |      |     |
|                                                                                 | * The above specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 1,000 hours at 105℃ without voltage applied.                                                                                                                                                                                                                                                                                                                                                           |                        |                                                                                                                       |      |         |              |      |      |      |                       |     |    |     |         |            |      |      |      |            |          |      |      |      |      |           |      |      |      |     |             |     |      |      |     |                |     |      |      |     |
| Ripple Current and Frequency Multipliers                                        | <table><tr><td>Freq.(Hz)<br/>Cap.(μF)</td><td>120</td><td>1k</td><td>10k</td><td>100k up</td></tr><tr><td>under ~ 33</td><td>0.42</td><td>0.70</td><td>0.90</td><td>1.0</td></tr><tr><td>39 ~ 270</td><td>0.5</td><td>0.73</td><td>0.92</td><td>1.0</td></tr><tr><td>330 ~ 680</td><td>0.55</td><td>0.77</td><td>0.94</td><td>1.0</td></tr><tr><td>820 ~ 1,800</td><td>0.6</td><td>0.80</td><td>0.96</td><td>1.0</td></tr><tr><td>2,200 ~ 15,000</td><td>0.7</td><td>0.85</td><td>0.98</td><td>1.0</td></tr></table> |                        |                                                                                                                       |      |         |              |      |      |      | Freq.(Hz)<br>Cap.(μF) | 120 | 1k | 10k | 100k up | under ~ 33 | 0.42 | 0.70 | 0.90 | 1.0        | 39 ~ 270 | 0.5  | 0.73 | 0.92 | 1.0  | 330 ~ 680 | 0.55 | 0.77 | 0.94 | 1.0 | 820 ~ 1,800 | 0.6 | 0.80 | 0.96 | 1.0 | 2,200 ~ 15,000 | 0.7 | 0.85 | 0.98 | 1.0 |
|                                                                                 | Freq.(Hz)<br>Cap.(μF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 120                    | 1k                                                                                                                    | 10k  | 100k up |              |      |      |      |                       |     |    |     |         |            |      |      |      |            |          |      |      |      |      |           |      |      |      |     |             |     |      |      |     |                |     |      |      |     |
|                                                                                 | under ~ 33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.42                   | 0.70                                                                                                                  | 0.90 | 1.0     |              |      |      |      |                       |     |    |     |         |            |      |      |      |            |          |      |      |      |      |           |      |      |      |     |             |     |      |      |     |                |     |      |      |     |
|                                                                                 | 39 ~ 270                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.5                    | 0.73                                                                                                                  | 0.92 | 1.0     |              |      |      |      |                       |     |    |     |         |            |      |      |      |            |          |      |      |      |      |           |      |      |      |     |             |     |      |      |     |                |     |      |      |     |
|                                                                                 | 330 ~ 680                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.55                   | 0.77                                                                                                                  | 0.94 | 1.0     |              |      |      |      |                       |     |    |     |         |            |      |      |      |            |          |      |      |      |      |           |      |      |      |     |             |     |      |      |     |                |     |      |      |     |
|                                                                                 | 820 ~ 1,800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.6                    | 0.80                                                                                                                  | 0.96 | 1.0     |              |      |      |      |                       |     |    |     |         |            |      |      |      |            |          |      |      |      |      |           |      |      |      |     |             |     |      |      |     |                |     |      |      |     |
|                                                                                 | 2,200 ~ 15,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.7                    | 0.85                                                                                                                  | 0.98 | 1.0     |              |      |      |      |                       |     |    |     |         |            |      |      |      |            |          |      |      |      |      |           |      |      |      |     |             |     |      |      |     |                |     |      |      |     |

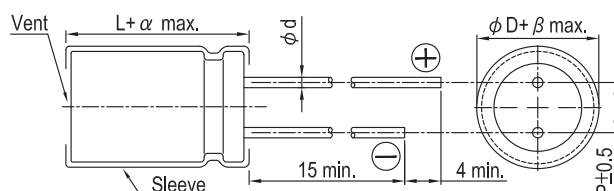
## Diagram of Dimensions



## Lead Spacing and Diameter Unit: mm

|          |                             |     |     |     |      |     |     |
|----------|-----------------------------|-----|-----|-----|------|-----|-----|
| $\phi D$ | 5                           | 6.3 | 8   | 10  | 12.5 | 16  | 18  |
| P        | 2.0                         | 2.5 | 3.5 | 5.0 | 5.0  | 7.5 | 7.5 |
| $\phi d$ | 0.5                         |     | 0.6 |     |      | 0.8 |     |
| $\alpha$ | L<20: 1.5, L $\geq$ 20: 2.0 |     |     |     |      |     |     |
| $\beta$  | 0.5                         |     |     |     |      |     |     |

The case size of 16×20, 18×20 and 18×25 are suitable for below diagram:





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

Ripple Current: mA/rms at 100k Hz, 105°C

Dimension and Permissible Ripple Current

| Rated Volt.<br>V <sub>OC</sub><br><br>Contents<br><br>Cap. (μF) | 6.3V (0J)        |                               |                |                                      | 10V (1A)           |                               |                |                                      | 16V (1C)           |                               |                |                                      | 25V (1E)                  |                               |                         |                                      |
|-----------------------------------------------------------------|------------------|-------------------------------|----------------|--------------------------------------|--------------------|-------------------------------|----------------|--------------------------------------|--------------------|-------------------------------|----------------|--------------------------------------|---------------------------|-------------------------------|-------------------------|--------------------------------------|
|                                                                 | ϕ D×L            | Impedance<br>(Ω, max./100kHz) |                | Ripple<br>Current<br>(mA/rms, 105°C) | ϕ D×L              | Impedance<br>(Ω, max./100kHz) |                | Ripple<br>Current<br>(mA/rms, 105°C) | ϕ D×L              | Impedance<br>(Ω, max./100kHz) |                | Ripple<br>Current<br>(mA/rms, 105°C) | ϕ D×L                     | Impedance<br>(Ω, max./100kHz) |                         | Ripple<br>Current<br>(mA/rms, 105°C) |
|                                                                 |                  | 20°C                          | -10°C          | 100k Hz                              |                    | 20°C                          | -10°C          | 100k Hz                              |                    | 20°C                          | -10°C          | 100k Hz                              |                           | 20°C                          | -10°C                   | 100k Hz                              |
| 4.7                                                             |                  |                               |                |                                      |                    |                               |                |                                      |                    |                               |                |                                      | 5×11                      | 0.6                           | 1.2                     | 180                                  |
| 10                                                              |                  |                               |                |                                      |                    |                               |                |                                      | 5×11               | 0.6                           | 1.2            | 180                                  | 5×11                      | 0.6                           | 1.2                     | 180                                  |
| 22                                                              | 5×11             | 0.6                           | 1.2            | 180                                  | 5×11               | 0.6                           | 1.2            | 180                                  | 5×11               | 0.6                           | 1.2            | 180                                  | 5×11                      | 0.6                           | 1.2                     | 180                                  |
| 33                                                              | 5×11             | 0.6                           | 1.2            | 180                                  | 5×11               | 0.6                           | 1.2            | 180                                  | 5×11               | 0.6                           | 1.2            | 180                                  | 5×11                      | 0.6                           | 1.2                     | 180                                  |
| 39                                                              |                  |                               |                |                                      |                    |                               |                |                                      |                    |                               |                |                                      | 5×11                      | 0.6                           | 1.2                     | 180                                  |
| 47                                                              | 5×11             | 0.6                           | 1.2            | 180                                  | 5×11               | 0.6                           | 1.2            | 180                                  | 5×11               | 0.6                           | 1.2            | 180                                  | 5×11                      | 0.6                           | 1.2                     | 180                                  |
| 56                                                              |                  |                               |                |                                      |                    |                               |                |                                      | 5×11               | 0.6                           | 1.2            | 180                                  |                           |                               |                         |                                      |
| 82                                                              |                  |                               |                |                                      | 5×11               | 0.6                           | 1.2            | 180                                  |                    |                               |                |                                      | 6.3×11                    | 0.25                          | 0.50                    | 290                                  |
| 100                                                             | 5×11             | 0.6                           | 1.2            | 180                                  | 5×11               | 0.6                           | 1.2            | 180                                  | 6.3×11             | 0.25                          | 0.5            | 290                                  | 6.3×11                    | 0.25                          | 0.50                    | 290                                  |
| 120                                                             |                  |                               |                |                                      |                    |                               |                |                                      | 6.3×11             | 0.25                          | 0.5            | 290                                  | 6.3×15                    | 0.23                          | 0.46                    | 430                                  |
| 150                                                             | 6.3×11           | 0.25                          | 0.5            | 290                                  | 6.3×11             | 0.25                          | 0.5            | 290                                  | 6.3×11             | 0.25                          | 0.5            | 290                                  | 8×11.5                    | 0.117                         | 0.234                   | 555                                  |
| 180                                                             |                  |                               |                |                                      | 6.3×11             | 0.25                          | 0.5            | 290                                  | 6.3×15             | 0.23                          | 0.46           | 430                                  |                           |                               |                         |                                      |
| 220                                                             | 6.3×11           | 0.25                          | 0.5            | 290                                  | 6.3×11<br>6.3×15   | 0.25<br>0.23                  | 0.5<br>0.46    | 290<br>430                           | 8×11.5             | 0.117                         | 0.234          | 555                                  | 8×11.5                    | 0.117                         | 0.234                   | 555                                  |
| 330                                                             | 6.3×11<br>6.3×15 | 0.25<br>0.23                  | 0.50<br>0.46   | 290<br>430                           | 8×11.5             | 0.117                         | 0.234          | 555                                  | 8×11.5             | 0.117                         | 0.234          | 555                                  | 8×15<br>10×12.5           | 0.085<br>0.090                | 0.17<br>0.18            | 730<br>755                           |
| 470                                                             | 8×11.5           | 0.117                         | 0.234          | 555                                  | 8×11.5             | 0.117                         | 0.234          | 555                                  | 8×15<br>10×12.5    | 0.085<br>0.090                | 0.17<br>0.18   | 730<br>755                           | 8×20<br>10×16             | 0.065<br>0.068                | 0.130<br>0.136          | 995<br>1,050                         |
| 560                                                             | 8×11.5           | 0.117                         | 0.234          | 555                                  |                    |                               |                |                                      |                    |                               |                |                                      | 10×20                     | 0.052                         | 0.104                   | 1,220                                |
| 680                                                             | 10×12.5          | 0.090                         | 0.180          | 755                                  | 8×15<br>10×12.5    | 0.085<br>0.090                | 0.170<br>0.180 | 730<br>755                           | 8×20<br>10×16      | 0.065<br>0.068                | 0.130<br>0.136 | 995<br>1,050                         | 10×20                     | 0.052                         | 0.104                   | 1,220                                |
| 820                                                             | 8×15<br>10×12.5  | 0.085<br>0.090                | 0.170<br>0.180 | 730<br>755                           |                    |                               |                |                                      | 10×20              | 0.052                         | 0.104          | 1,220                                | 10×25                     | 0.045                         | 0.090                   | 1,440                                |
| 1,000                                                           | 10×12.5          | 0.090                         | 0.180          | 755                                  | 8×20<br>10×16      | 0.065<br>0.068                | 0.130<br>0.136 | 995<br>1,050                         | 10×20              | 0.052                         | 0.104          | 1,220                                | 10×30<br>12.5×20          | 0.035<br>0.038                | 0.070<br>0.076          | 1,815<br>1,655                       |
| 1,200                                                           | 8×20<br>10×16    | 0.065<br>0.068                | 0.130<br>0.136 | 955<br>1,050                         | 10×20              | 0.052                         | 0.104          | 1,220                                | 10×25              | 0.045                         | 0.090          | 1,440                                |                           |                               |                         |                                      |
| 1,500                                                           | 10×20            | 0.052                         | 0.104          | 1,220                                | 10×20<br>10×25     | 0.052<br>0.045                | 0.104<br>0.090 | 1,220<br>1,440                       | 12.5×20<br>10×30   | 0.038<br>0.035                | 0.076<br>0.070 | 1,655<br>1,815                       | 12.5×25<br>16×25          | 0.030<br>0.022                | 0.060<br>0.044          | 1,945<br>2,555                       |
| 1,800                                                           |                  |                               |                |                                      |                    |                               |                |                                      |                    |                               |                |                                      | 12.5×30<br>16×20          | 0.025<br>0.029                | 0.050<br>0.058          | 2,310<br>2,205                       |
| 2,200                                                           | 10×25<br>12.5×20 | 0.045<br>0.038                | 0.090<br>0.076 | 1,440<br>1,615                       | 10×30<br>12.5×20   | 0.035<br>0.038                | 0.070<br>0.076 | 1,815<br>1,655                       | 12.5×25            | 0.030                         | 0.06           | 1,945                                | 12.5×35<br>16×25<br>18×20 | 0.022<br>0.022<br>0.028       | 0.044<br>0.044<br>0.056 | 2,510<br>2,555<br>2,490              |
| 2,700                                                           | 10×30            | 0.035                         | 0.070          | 1,815                                | 12.5×25            | 0.030                         | 0.060          | 1,945                                | 12.5×30<br>16×20   | 0.025<br>0.029                | 0.05<br>0.058  | 2,310<br>2,205                       | 16×25                     | 0.022                         | 0.044                   | 2,555                                |
| 3,300                                                           | 12.5×20          | 0.038                         | 0.076          | 1,655                                | 12.5×25<br>12.5×30 | 0.030<br>0.025                | 0.060<br>0.050 | 1,945<br>2,310                       | 16×25<br>12.5×35   | 0.022<br>0.022                | 0.044<br>0.044 | 2,555<br>2,510                       | 16×31.5<br>18×25          | 0.018<br>0.020                | 0.036<br>0.040          | 3,010<br>2,740                       |
| 3,900                                                           | 12.5×25          | 0.030                         | 0.060          | 1,945                                | 12.5×35<br>16×20   | 0.022<br>0.029                | 0.044<br>0.058 | 2,510<br>2,205                       | 16×25<br>18×20     | 0.022<br>0.028                | 0.044<br>0.056 | 2,555<br>2,490                       | 16×35.5<br>18×31.5        | 0.016<br>0.016                | 0.032<br>0.032          | 3,150<br>3,635                       |
| 4,700                                                           | 12.5×30<br>16×25 | 0.025<br>0.022                | 0.050<br>0.044 | 2,310<br>2,555                       | 16×25              | 0.022                         | 0.044          | 2,555                                | 16×31.5<br>18×25   | 0.018<br>0.020                | 0.036<br>0.040 | 3,010<br>2,740                       | 18×35.5                   | 0.015                         | 0.030                   | 3,680                                |
| 5,600                                                           | 12.5×35<br>16×20 | 0.022<br>0.029                | 0.044<br>0.058 | 2,510<br>2,205                       | 16×25<br>18×20     | 0.022<br>0.028                | 0.044<br>0.056 | 2,555<br>2,490                       | 16×35.5<br>18×31.5 | 0.016<br>0.016                | 0.032<br>0.032 | 3,150<br>3,635                       |                           |                               |                         |                                      |
| 6,800                                                           | 16×25<br>18×20   | 0.022<br>0.028                | 0.044<br>0.056 | 2,555<br>2,490                       | 16×31.5<br>18×25   | 0.018<br>0.020                | 0.036<br>0.040 | 3,010<br>2,740                       | 18×35.5            | 0.015                         | 0.030          | 3,680                                | 18×40                     | 0.014                         | 0.028                   | 3,800                                |
| 8,200                                                           | 16×31.5          | 0.018                         | 0.036          | 3,010                                | 16×35.5<br>18×31.5 | 0.016<br>0.016                | 0.032<br>0.032 | 3,150<br>3,635                       | 18×35.5            | 0.015                         | 0.030          | 3,680                                |                           |                               |                         |                                      |
| 10,000                                                          | 16×31.5<br>18×25 | 0.016<br>0.020                | 0.032<br>0.040 | 3,150<br>2,740                       | 18×35.5            | 0.015                         | 0.030          | 3,680                                | 18×40              | 0.014                         | 0.028          | 3,800                                |                           |                               |                         |                                      |
| 12,000                                                          | 18×31.5          | 0.016                         | 0.032          | 3,635                                |                    |                               |                |                                      |                    |                               |                |                                      |                           |                               |                         |                                      |
| 15,000                                                          | 18×35.5          | 0.015                         | 0.030          | 3,680                                | 18×40              | 0.014                         | 0.028          | 3,800                                |                    |                               |                |                                      |                           |                               |                         |                                      |



## Dimension and Permissible Ripple Current

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

Ripple Current: mA/rms at 100k Hz, 105°C

| Cap. (μF) | Contents           | 35V (1V)                   |                |                                |  | 50V (1H)                   |                |                                |                | 63V (1J)                    |                         |                                |                         | 100V (2A)                  |                |                                |                |
|-----------|--------------------|----------------------------|----------------|--------------------------------|--|----------------------------|----------------|--------------------------------|----------------|-----------------------------|-------------------------|--------------------------------|-------------------------|----------------------------|----------------|--------------------------------|----------------|
|           |                    | Impedance (Ω, max./100kHz) |                | Ripple Current (mA/rms, 105°C) |  | Impedance (Ω, max./100kHz) |                | Ripple Current (mA/rms, 105°C) |                | Impedance (Ω, max./100kHz)  |                         | Ripple Current (mA/rms, 105°C) |                         | Impedance (Ω, max./100kHz) |                | Ripple Current (mA/rms, 105°C) |                |
|           |                    | 20°C                       | -10°C          | 100k Hz                        |  | 20°C                       | -10°C          | 100k Hz                        |                | 20°C                        | -10°C                   | 100k Hz                        |                         | 20°C                       | -10°C          | 100k Hz                        |                |
| 2.2       |                    |                            |                |                                |  |                            |                |                                |                |                             |                         |                                |                         | 5×11                       | 9.8            | 19.6                           | 44             |
| 3.3       |                    |                            |                |                                |  |                            |                |                                |                |                             |                         |                                |                         | 5×11                       | 6.6            | 13.2                           | 58             |
| 4.7       | 5×11               | 0.6                        | 1.2            | 180                            |  | 5×11                       | 2.3            | 4.6                            | 90             | 5×11                        | 4.7                     | 9.4                            | 68                      | 5×11                       | 4.6            | 9.2                            | 74             |
| 6.8       |                    |                            |                |                                |  |                            |                |                                |                | 5×11                        | 2.5                     | 5.0                            | 95                      | 5×11                       | 3.5            | 7.0                            | 95             |
| 10        | 5×11               | 0.6                        | 1.2            | 180                            |  | 5×11                       | 1.4            | 2.8                            | 120            | 5×11                        | 2.1                     | 4.2                            | 110                     | 6.3×11                     | 1.8            | 3.6                            | 130            |
| 12        |                    |                            |                |                                |  |                            |                |                                |                | 5×11                        | 2.0                     | 4.0                            | 145                     |                            |                |                                |                |
| 15        |                    |                            |                |                                |  |                            |                |                                |                | 6.3×11                      | 1.2                     | 2.4                            | 160                     | 8×11.5                     | 0.83           | 1.66                           | 180            |
| 18        |                    |                            |                |                                |  | 5×11                       | 1.3            | 2.6                            | 155            |                             |                         |                                |                         | 6.3×15                     | 0.80           | 1.60                           | 200            |
| 22        | 5×11               | 0.6                        | 1.2            | 180                            |  | 5×11                       | 1.2            | 2.4                            | 170            | 6.3×11                      | 0.71                    | 1.42                           | 250                     | 8×11.5                     | 0.68           | 1.36                           | 230            |
| 27        | 5×11               | 0.6                        | 1.2            | 180                            |  |                            |                |                                |                |                             |                         |                                |                         |                            |                |                                |                |
| 33        | 5×11               | 0.6                        | 1.2            | 180                            |  | 6.3×11                     | 0.43           | 0.86                           | 300            | 6.3×11                      | 0.71                    | 1.42                           | 250                     | 8×15<br>10×12.5            | 0.45<br>0.46   | 0.90<br>0.92                   | 360<br>320     |
| 39        |                    |                            |                |                                |  |                            |                |                                |                | 6.3×15                      | 0.70                    | 1.40                           | 330                     |                            |                |                                |                |
| 47        | 6.3×11             | 0.25                       | 0.5            | 290                            |  | 6.3×11                     | 0.43           | 0.86                           | 300            | 8×11.5                      | 0.342                   | 0.684                          | 405                     | 10×16<br>8×20              | 0.37<br>0.37   | 0.74<br>0.74                   | 420<br>420     |
| 56        | 6.3×11             | 0.25                       | 0.5            | 290                            |  | 6.3×15                     | 0.40           | 0.80                           | 360            |                             |                         |                                |                         |                            |                |                                |                |
| 68        |                    |                            |                |                                |  |                            |                |                                |                | 8×11.5                      | 0.342                   | 0.684                          | 405                     | 10×20                      | 0.30           | 0.60                           | 490            |
| 82        | 6.3×15             | 0.23                       | 0.46           | 430                            |  | 8×11.5                     | 0.234          | 0.468                          | 485            |                             |                         |                                |                         | 10×25                      | 0.25           | 0.50                           | 540            |
| 100       | 8×11.5             | 0.117                      | 0.234          | 555                            |  | 8×11.5                     | 0.234          | 0.468                          | 485            | 10×12.5<br>8×15             | 0.256<br>0.230          | 0.512<br>0.460                 | 535<br>535              | 12.5×20                    | 0.18           | 0.36                           | 580            |
| 120       |                    |                            |                |                                |  | 8×15<br>10×12.5            | 0.155<br>0.162 | 0.310<br>0.324                 | 635<br>615     | 10×16                       | 0.194                   | 0.388                          | 600                     |                            |                |                                |                |
| 150       | 8×11.5             | 0.117                      | 0.234          | 555                            |  | 10×12.5                    | 0.162          | 0.324                          | 615            | 10×16                       | 0.194                   | 0.388                          | 660                     | 12.5×25                    | 0.13           | 0.26                           | 710            |
| 180       |                    |                            |                |                                |  | 8×20<br>10×16              | 0.120<br>0.119 | 0.240<br>0.238                 | 860<br>850     | 10×20<br>12.5×16            | 0.147<br>0.150          | 0.294<br>0.300                 | 885<br>1,020            | 12.5×30<br>16×20           | 0.12<br>0.13   | 0.24<br>0.26                   | 790<br>750     |
| 220       | 8×15<br>10×12.5    | 0.085<br>0.090             | 0.17<br>0.18   | 730<br>755                     |  | 10×16<br>10×20             | 0.119<br>0.090 | 0.238<br>0.180                 | 850<br>1,030   | 10×20<br>10×25              | 0.147<br>0.130          | 0.294<br>0.260                 | 885<br>1,050            | 16×25<br>18×20             | 0.10<br>0.11   | 0.20<br>0.22                   | 890<br>850     |
| 270       |                    |                            |                |                                |  | 10×25                      | 0.082          | 0.164                          | 1,200          | 16×16                       | 0.090                   | 0.180                          | 1,410                   |                            |                |                                |                |
| 330       | 8×20<br>10×16      | 0.065<br>0.068             | 0.130<br>0.136 | 995<br>1,050                   |  | 10×20<br>10×30             | 0.090<br>0.060 | 0.180<br>0.120                 | 1,030<br>1,610 | 12.5×20                     | 0.085                   | 0.170                          | 1,285                   | 16×25                      | 0.090          | 0.180                          | 1,080          |
| 390       | 10×20              | 0.052                      | 0.104          | 1,220                          |  | 12.5×20                    | 0.063          | 0.126                          | 1,480          | 12.5×25<br>18×16            | 0.070<br>0.086          | 0.140<br>0.172                 | 1,720<br>1,690          | 18×25                      | 0.083          | 0.166                          | 1,260          |
| 470       | 10×20              | 0.052                      | 0.104          | 1,220                          |  | 12.5×20                    | 0.060          | 0.120                          | 1,500          | 12.5×25<br>12.5×30<br>16×20 | 0.070<br>0.055<br>0.059 | 0.140<br>0.110<br>0.118        | 1,720<br>2,090<br>1,765 | 16×31.5                    | 0.076          | 0.152                          | 1,310          |
| 560       | 10×25              | 0.045                      | 0.090          | 1,440                          |  | 12.5×25                    | 0.050          | 0.100                          | 1,832          | 16×25                       | 0.050                   | 0.100                          | 2,160                   | 18×31.5<br>18×35.5         | 0.068<br>0.064 | 0.136<br>0.128                 | 1,370<br>1,410 |
| 680       | 10×30<br>12.5×20   | 0.035<br>0.038             | 0.070<br>0.076 | 1,815<br>1,655                 |  | 12.5×25<br>16×20           | 0.050<br>0.048 | 0.100<br>0.096                 | 1,832<br>1,835 | 12.5×35<br>18×20            | 0.047<br>0.055          | 0.094<br>0.110                 | 2,265<br>2,290          |                            |                |                                |                |
| 820       |                    |                            |                |                                |  | 12.5×35<br>18×20           | 0.034<br>0.042 | 0.068<br>0.084                 | 2,285<br>2,200 | 16×31.5<br>18×25            | 0.043<br>0.043          | 0.086<br>0.086                 | 2,670<br>2,585          | 18×40                      | 0.047          | 0.094                          | 1,520          |
| 1,000     | 12.5×25            | 0.030                      | 0.060          | 1,945                          |  | 16×25                      | 0.034          | 0.068                          | 2,235          | 16×31.5<br>16×35.5          | 0.043<br>0.036          | 0.086<br>0.072                 | 2,670<br>2,770          |                            |                |                                |                |
| 1,200     | 12.5×30<br>16×20   | 0.025<br>0.029             | 0.050<br>0.058 | 2,310<br>2,205                 |  | 16×31.5<br>18×25           | 0.028<br>0.029 | 0.056<br>0.058                 | 2,700<br>2,610 | 18×31.5                     | 0.032                   | 0.064                          | 2,950                   |                            |                |                                |                |
| 1,500     | 12.5×35<br>16×25   | 0.022<br>0.022             | 0.044<br>0.044 | 2,510<br>2,555                 |  | 16×31.5<br>16×35.5         | 0.028<br>0.025 | 0.056<br>0.050                 | 2,700<br>2,790 | 18×35.5                     | 0.030                   | 0.060                          | 3,095                   |                            |                |                                |                |
| 1,800     | 16×25<br>18×20     | 0.022<br>0.028             | 0.044<br>0.056 | 2,555<br>2,490                 |  | 18×31.5                    | 0.025          | 0.05                           | 3,000          |                             |                         |                                |                         |                            |                |                                |                |
| 2,200     | 16×31.5<br>18×25   | 0.018<br>0.020             | 0.036<br>0.040 | 3,010<br>2,740                 |  | 18×35.5                    | 0.023          | 0.046                          | 3,100          | 18×40                       | 0.028                   | 0.056                          | 3,200                   |                            |                |                                |                |
| 2,700     | 16×35.5<br>18×31.5 | 0.016<br>0.016             | 0.032<br>0.032 | 3,150<br>3,635                 |  |                            |                |                                |                |                             |                         |                                |                         |                            |                |                                |                |
| 3,300     | 18×35.5            | 0.015                      | 0.030          | 3,680                          |  |                            |                |                                |                |                             |                         |                                |                         |                            |                |                                |                |
| 4,700     | 18×40              | 0.014                      | 0.028          | 3,800                          |  |                            |                |                                |                |                             |                         |                                |                         |                            |                |                                |                |

## Part Numbering System

|             |             |                       |               |                              |             |                  |                           |
|-------------|-------------|-----------------------|---------------|------------------------------|-------------|------------------|---------------------------|
| RXW Series  | 470μF       | ±20%                  | 6.3V          | Bulk Package                 | Gas Type    | 8 $\phi$ × 11.5L | Pb-free and PET sleeve    |
| <b>RXW</b>  | <b>471</b>  | <b>M</b>              | <b>0J</b>     | <b>BK</b>                    | <b>-</b>    | <b>0811</b>      |                           |
| Series Name | Capacitance | Capacitance Tolerance | Rated Voltage | Lead Configuration & Package | Rubber Type | Case Size        | Lead Wire and Sleeve type |

Note: For more details, please refer to "Part Numbering System (Radial Type)" on page 13.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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