



## RXW Series

### Features

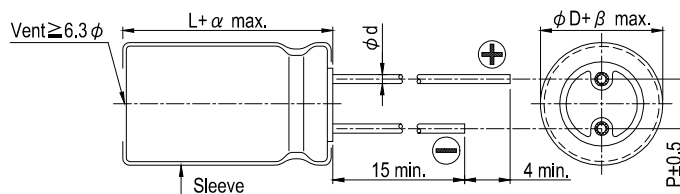
- 105°C, 4,000 ~ 7,000 hours assured
- Low ESR, suitable for switching power supplies
- Smaller size with large permissible ripple current
- RoHS compliant



### Specifications

| Items                                                                                                                                                        | Performance                                                                                                                                                                                                                                                                   |      |                                                                                                                       |      |      |                |      |      |      |               |     |    |    |    |    |    |    |     |             |      |      |      |      |      |      |      |      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------|------|------|----------------|------|------|------|---------------|-----|----|----|----|----|----|----|-----|-------------|------|------|------|------|------|------|------|------|
| Category Temperature Range                                                                                                                                   | 6.3 ~ 63V                                                                                                                                                                                                                                                                     |      |                                                                                                                       |      |      | 100V           |      |      |      |               |     |    |    |    |    |    |    |     |             |      |      |      |      |      |      |      |      |
|                                                                                                                                                              | -55°C ~ +105°C                                                                                                                                                                                                                                                                |      |                                                                                                                       |      |      | -40°C ~ +105°C |      |      |      |               |     |    |    |    |    |    |    |     |             |      |      |      |      |      |      |      |      |
| Capacitance Tolerance                                                                                                                                        | ± 20 % (at 120 Hz, 20°C)                                                                                                                                                                                                                                                      |      |                                                                                                                       |      |      |                |      |      |      |               |     |    |    |    |    |    |    |     |             |      |      |      |      |      |      |      |      |
| Leakage Current (at 20°C)                                                                                                                                    | 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°C)                                                                                                                                       | <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 120 Hz)                                                                                                                  | 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°C/-40°C) / Z(+20°C)                                                                                                                                                                                                                                                     |      | 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°C after the rated voltage applied with rated ripple current for 4,000 ~ 7,000 hours at 105°C.                                                                                            |      |                                                                                                                       |      |      |                |      |      |      |               |     |    |    |    |    |    |    |     |             |      |      |      |      |      |      |      |      |
| 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°C after exposing them for 1,000 hours at 105°C without voltage applied. |                                                                                                                                                                                                                                                                               |      |                                                                                                                       |      |      |                |      |      |      |               |     |    |    |    |    |    |    |     |             |      |      |      |      |      |      |      |      |
| Ripple Current and Frequency Multipliers                                                                                                                     | Freq.(Hz)                                                                                                                                                                                                                                                                     |      | 120                                                                                                                   | 1k   | 10k  | 100k up        |      |      |      |               |     |    |    |    |    |    |    |     |             |      |      |      |      |      |      |      |      |
|                                                                                                                                                              | Cap.(μF)                                                                                                                                                                                                                                                                      |      |                                                                                                                       |      |      |                |      |      |      |               |     |    |    |    |    |    |    |     |             |      |      |      |      |      |      |      |      |
|                                                                                                                                                              | ≤ ~ 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

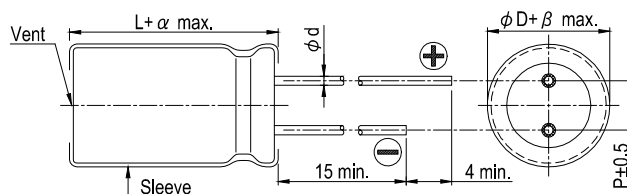


### Lead Spacing and Diameter

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)  
 Impedance:  $\Omega$  / at 100k Hz  
 Ripple Current: mA/rms at 105°C

## Dimension and Permissible Ripple Current

| Rated Volt.<br>(V <sub>DC</sub> )<br><br>Contents<br>Cap. (μF) | 6.3V (0J)         |                                        |                |                                                 | 10V (1A)           |                                        |                |                                                 | 16V (1C)           |                                        |                |                                                 | 25V (1E)                  |                                        |                         |                                                 |
|----------------------------------------------------------------|-------------------|----------------------------------------|----------------|-------------------------------------------------|--------------------|----------------------------------------|----------------|-------------------------------------------------|--------------------|----------------------------------------|----------------|-------------------------------------------------|---------------------------|----------------------------------------|-------------------------|-------------------------------------------------|
|                                                                | $\phi D \times L$ | Impedance<br>( $\Omega$ , max./100kHz) |                | Ripple<br>Current<br>(mA/rms, 105°C)<br>100k Hz | $\phi D \times L$  | Impedance<br>( $\Omega$ , max./100kHz) |                | Ripple<br>Current<br>(mA/rms, 105°C)<br>100k Hz | $\phi D \times L$  | Impedance<br>( $\Omega$ , max./100kHz) |                | Ripple<br>Current<br>(mA/rms, 105°C)<br>100k Hz | $\phi D \times L$         | Impedance<br>( $\Omega$ , max./100kHz) |                         | Ripple<br>Current<br>(mA/rms, 105°C)<br>100k Hz |
|                                                                |                   | 20°C                                   | -10°C          |                                                 |                    | 20°C                                   | -10°C          |                                                 |                    | 20°C                                   | -10°C          |                                                 |                           | 20°C                                   | -10°C                   |                                                 |
| 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:  $\phi$  D×L(mm)  
Impedance:  $\Omega$ / at 100k Hz  
Ripple Current: mA/rms at 105°C

## Dimension and Permissible Ripple Current

| Rated Volt.<br>(Vdc)<br><br>Contents<br><br>Cap. (μF) | 35V (1V)           |                                        |                |                                                 | 50V (1H)           |                                        |                |                                                 | 63V (1J)                    |                                        |                         |                                                 | 100V (2A)          |                                        |                |                                                 |
|-------------------------------------------------------|--------------------|----------------------------------------|----------------|-------------------------------------------------|--------------------|----------------------------------------|----------------|-------------------------------------------------|-----------------------------|----------------------------------------|-------------------------|-------------------------------------------------|--------------------|----------------------------------------|----------------|-------------------------------------------------|
|                                                       | $\phi$ D×L         | Impedance<br>( $\Omega$ , max./100kHz) |                | Ripple<br>Current<br>(mA/rms, 105°C)<br>100k Hz | $\phi$ D×L         | Impedance<br>( $\Omega$ , max./100kHz) |                | Ripple<br>Current<br>(mA/rms, 105°C)<br>100k Hz | $\phi$ D×L                  | Impedance<br>( $\Omega$ , max./100kHz) |                         | Ripple<br>Current<br>(mA/rms, 105°C)<br>100k Hz | $\phi$ D×L         | Impedance<br>( $\Omega$ , max./100kHz) |                | Ripple<br>Current<br>(mA/rms, 105°C)<br>100k Hz |
|                                                       |                    | 20°C                                   | -10°C          |                                                 |                    | 20°C                                   | -10°C          |                                                 |                             | 20°C                                   | -10°C                   |                                                 |                    | 20°C                                   | -10°C          |                                                 |
| 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                                             |                    |                                        |                |                                                 |
| 18                                                    |                    |                                        |                |                                                 | 5×11               | 1.3                                    | 2.6            | 155                                             |                             |                                        |                         |                                                 | 6.3×15             | 0.83                                   | 1.66           | 180                                             |
| 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    General Purpose

**RXW**    **471**    **M**    **0J**    **BK**    -    **0811**

Series Name    Capacitance    Capacitance Tolerance    Rated Voltage    Lead Configuration and Package    Rubber Type    Case Size    Application

Note: For more details, please refer to "Part Numbering System - Radial Type" on page 139.

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