

## 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



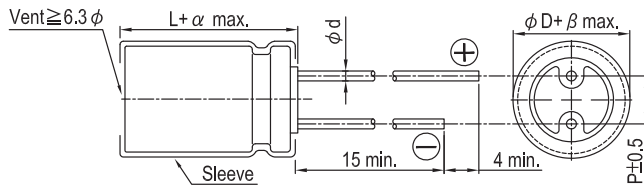
Sleeve & Marking Color: Black & Golden

### Specifications

| Items                                      | Performance  |                        |               |   |                    |                              |      |                                   |                 |                        |         |                 |                           |      |      |      |          |      |      |      |     |           |      |      |      |     |             |     |      |      |     |                |     |      |      |     |
|--|--|------------------------|---------------|---|--------------------|------------------------------|------|-----------------------------------|-----------------|------------------------|---------|-----------------|---------------------------|------|------|------|----------|------|------|------|-----|-----------|------|------|------|-----|-------------|-----|------|------|-----|----------------|-----|------|------|-----|
| Category Temperature Range                 | 6.3 ~ 63V<br>-55°C ~ +105°C  | 100V<br>-40°C ~ +105°C |               |   |                    |                              |      |                                   |                 |                        |         |                 |                           |      |      |      |          |      |      |      |     |           |      |      |      |     |             |     |      |      |     |                |     |      |      |     |
| Capacitance Tolerance                      | ± 20 % (at 120Hz, 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 border="1"> <tr> <th>Rated Voltage</th> <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> <th>Tanδ (max)</th> <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> <p>When the capacitance exceeds 1000μF, 0.02 shall be added every 1000μF increase.</p>  |                        | 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                              |                 |                        |         |                 |                           |      |      |      |          |      |      |      |     |           |      |      |      |     |             |     |      |      |     |                |     |      |      |     |
| Low Temperature Characteristics (at 120Hz) | <p>Impedance ratio shall not exceed the values given in the table below.</p> <table border="1"> <tr> <th>Rated Voltage</th> <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> <th>Impedance Ratio</th> <td>Z(-55°C/-40°C) / Z(+20°C)</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> </table>   |                        | 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    |     |           |      |      |      |     |             |     |      |      |     |                |     |      |      |     |
| 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                                 |                 |                        |         |                 |                           |      |      |      |          |      |      |      |     |           |      |      |      |     |             |     |      |      |     |                |     |      |      |     |
| Endurance                                  | <table border="1"> <tr> <th>Test Time</th> <td>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</td> </tr> <tr> <th>Capacitance Change</th> <td>Within ±25% of initial value</td> </tr> <tr> <th>Tanδ</th> <td>Less than 200% of specified value</td> </tr> <tr> <th>Leakage Current</th> <td>Within specified value</td> </tr> </table> <p>* 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.</p>           |                        | 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 |         |                 |                           |      |      |      |          |      |      |      |     |           |      |      |      |     |             |     |      |      |     |                |     |      |      |     |
| 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   |                        |               |   |                    |                              |      |                                   |                 |                        |         |                 |                           |      |      |      |          |      |      |      |     |           |      |      |      |     |             |     |      |      |     |                |     |      |      |     |
| Shelf Life Test                            | <table border="1"> <tr> <th>Test Time</th> <td>1,000 Hrs</td> </tr> <tr> <th>Capacitance Change</th> <td>Within ±25% of initial value</td> </tr> <tr> <th>Tanδ</th> <td>Less than 200% of specified value</td> </tr> <tr> <th>Leakage Current</th> <td>Within specified value</td> </tr> </table> <p>* 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.</p>  |                        | Test Time     | 1,000 Hrs   | Capacitance Change | Within ±25% of initial value | Tanδ | Less than 200% of specified value | Leakage Current | Within specified value |         |                 |                           |      |      |      |          |      |      |      |     |           |      |      |      |     |             |     |      |      |     |                |     |      |      |     |
| Test Time                                  | 1,000 Hrs  |                        |               |   |                    |                              |      |                                   |                 |                        |         |                 |                           |      |      |      |          |      |      |      |     |           |      |      |      |     |             |     |      |      |     |                |     |      |      |     |
| Capacitance Change                         | Within ±25% of initial value   |                        |               |   |                    |                              |      |                                   |                 |                        |         |                 |                           |      |      |      |          |      |      |      |     |           |      |      |      |     |             |     |      |      |     |                |     |      |      |     |
| Tanδ                                       | Less than 200% of specified value  |                        |               |   |                    |                              |      |                                   |                 |                        |         |                 |                           |      |      |      |          |      |      |      |     |           |      |      |      |     |             |     |      |      |     |                |     |      |      |     |
| Leakage Current                            | Within specified value   |                        |               |   |                    |                              |      |                                   |                 |                        |         |                 |                           |      |      |      |          |      |      |      |     |           |      |      |      |     |             |     |      |      |     |                |     |      |      |     |
| Ripple Current and Frequency Multipliers   | <table border="1"> <tr> <th rowspan="2">Cap. (μF)</th> <th colspan="4">Freq. (Hz)</th> </tr> <tr> <th>120</th> <th>1k</th> <th>10k</th> <th>100k up</th> </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> |                        | Cap. (μF)     | Freq. (Hz)  |                    |                              |      | 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 |
| Cap. (μF)                                  | Freq. (Hz)   |                        |               |   |                    |                              |      |                                   |                 |                        |         |                 |                           |      |      |      |          |      |      |      |     |           |      |      |      |     |             |     |      |      |     |                |     |      |      |     |
|  | 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   |                    |                              |      |                                   |                 |                        |         |                 |                           |      |      |      |          |      |      |      |     |           |      |      |      |     |             |     |      |      |     |                |     |      |      |     |

Radial

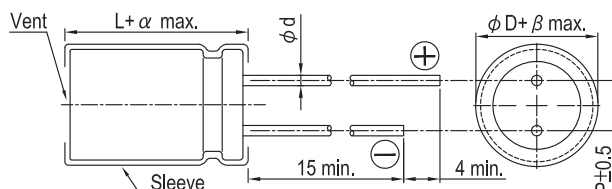
### Diagram of Dimensions



Lead Spacing and Diameter Unit: mm

| φ 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 |
| φ d | 0.5                      |     | 0.6 |     | 0.8  |     |     |
| α   | L < 20: 1.5, L ≥ 20: 2.0 |     |     |     |      |     |     |
| β   | 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>$V_{DC}$<br>Contents<br>Cap. ( $\mu F$ ) | 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<br>10×20    | 0.065<br>0.068<br>0.052                | 0.130<br>0.136<br>0.104 | 995<br>1,050<br>1,220                           |
| 560   | 8×11.5            | 0.117                                  | 0.234          | 555   |                    |  |                |   |                    |  |                |   |                           |  |                         |   |
| 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   |                    |  |                |   |                           |  |                         |   |

Radial



Dimension:  $\phi D \times L$ (mm)  
Ripple Current: mA/rms at 100k Hz, 105°C

Dimension and Permissible Ripple Current

| Rated Volt.<br>$V_{DC}$ | Contents           | 35V (1V)          |  |                | 50V (1H)                             |                   |  | 63V (1J)       |                                      |                         | 100V (2A)                              |                         |                                      |                |                |                |
|-------------------------|--------------------|-------------------|--|----------------|--------------------------------------|-------------------|--|----------------|--------------------------------------|-------------------------|--|-------------------------|--------------------------------------|----------------|----------------|----------------|
|                         |                    | $\phi D \times L$ | Impedance<br>( $\Omega$ , max./100kHz) |                | Ripple<br>Current<br>(mA/rms, 105°C) | $\phi D \times L$ | Impedance<br>( $\Omega$ , max./100kHz) |                | Ripple<br>Current<br>(mA/rms, 105°C) | $\phi D \times L$       | Impedance<br>( $\Omega$ , 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        |
| 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>0.110 | 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          |                                      |                   |  |                |                                      |                         |  |                         |                                      |                |                |                |

Radial

Part Numbering System

RXW Series    470 $\mu$ F     $\pm$ 20%    6.3V    Bulk Package    Gas Type    8 $\phi$ ×11.5L    Pb-free and PET sleeve

**RXW**    **471**    **M**    **OJ**    **BK**    -    **0811**

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 «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



## JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: [ocean@oceanchips.ru](mailto:ocean@oceanchips.ru)

Web: <http://oceanchips.ru/>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А