

RZW Series

Features

- 105°C, 4,000 ~ 10,000 hours assured
- Low ESR, suitable for switching power supplies
- Smaller size with large permissible ripple current
- RoHs Compliance

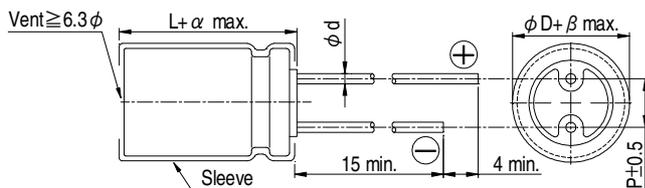


Sleeve & Marking Color: Black & Golden

Specifications

| Items | Performance | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|--|--|------------------------------|---|-----------------------------------|------------------------------|------------------------|--------------------|-----------------------------------|------|-----------------|------------------------|------|----------|------|------|------|-----|-----------|------|------|------|-----|-------------|-----|------|------|-----|----------------|-----|------|------|-----|
| Category Temperature Range | -55°C ~ +105°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capacitance Tolerance | ±20% (at 120Hz, 20°C) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leakage Current (at 20°C) | $I = 0.01CV$ or $3 (\mu A)$ whichever is greater (after 2 minutes) Where, C = rated capacitance in μF , V = rated DC working voltage in V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tan δ (at 120 Hz, 20°C) | <table border="1"> <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> </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> </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 | Tan δ (max) | 0.22 | 0.19 | 0.16 | 0.14 | 0.12 | 0.10 | 0.09 | | | | | | | | | | | | | | | | | | |
| Rated Voltage | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tan δ (max) | 0.22 | 0.19 | 0.16 | 0.14 | 0.12 | 0.10 | 0.09 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low Temperature Characteristics (at 120Hz) | <p>Impedance ratio shall not exceed the values given in the table below.</p> <table border="1"> <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> </tr> <tr> <td>Impedance Ratio</td> <td>Z(-55°C)/Z(+20°C)</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 | Impedance Ratio | Z(-55°C)/Z(+20°C) | 3 | 3 | 3 | 3 | 3 | 3 | | | | | | | | | | | | | | | | | | |
| Rated Voltage | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Impedance Ratio | Z(-55°C)/Z(+20°C) | 3 | 3 | 3 | 3 | 3 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Endurance | <table border="1"> <tr> <td rowspan="2">Time</td> <td>6.3 ~ 10V</td> <td>4,000 Hrs for $\phi D = 5 \sim 6.3$ mm; 6,000 Hrs for $\phi D = 8 \sim 10$ mm; 8,000 Hrs for $\phi D \geq 12.5$ mm</td> </tr> <tr> <td>16 ~ 63V</td> <td>5,000 Hrs for $\phi D = 5 \sim 6.3$ mm; 7,000 Hrs for $\phi D = 8 \sim 10$ mm; 10,000 Hrs for $\phi D \geq 12.5$ mm</td> </tr> <tr> <td>Capacitance Change</td> <td colspan="2">Within ±25% of initial value</td> </tr> <tr> <td>Tanδ</td> <td colspan="2">Less than 200% of specified value</td> </tr> <tr> <td>Leakage Current</td> <td colspan="2">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 ~ 10,000 hours at 105°C.</p> | Time | 6.3 ~ 10V | 4,000 Hrs for $\phi D = 5 \sim 6.3$ mm; 6,000 Hrs for $\phi D = 8 \sim 10$ mm; 8,000 Hrs for $\phi D \geq 12.5$ mm | 16 ~ 63V | 5,000 Hrs for $\phi D = 5 \sim 6.3$ mm; 7,000 Hrs for $\phi D = 8 \sim 10$ mm; 10,000 Hrs for $\phi D \geq 12.5$ mm | Capacitance Change | Within ±25% of initial value | | Tan δ | Less than 200% of specified value | | Leakage Current | Within specified value | | | | | | | | | | | | | | | | | | | | | |
| Time | 6.3 ~ 10V | | 4,000 Hrs for $\phi D = 5 \sim 6.3$ mm; 6,000 Hrs for $\phi D = 8 \sim 10$ mm; 8,000 Hrs for $\phi D \geq 12.5$ mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 16 ~ 63V | 5,000 Hrs for $\phi D = 5 \sim 6.3$ mm; 7,000 Hrs for $\phi D = 8 \sim 10$ mm; 10,000 Hrs for $\phi D \geq 12.5$ mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capacitance Change | Within ±25% of initial value | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tan δ | Less than 200% of specified value | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leakage Current | Within specified value | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Shelf Life Test | <table border="1"> <tr> <td>Test Time</td> <td>1,000 Hrs</td> </tr> <tr> <td>Capacitance Change</td> <td>Within ±25% of initial value</td> </tr> <tr> <td>Tanδ</td> <td>Less than 200% of specified value</td> </tr> <tr> <td>Leakage Current</td> <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 | Tan δ | Less than 200% of specified value | Leakage Current | Within specified value | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test Time | 1,000 Hrs | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capacitance Change | Within ±25% of initial value | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tan δ | Less than 200% of specified value | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leakage Current | Within specified value | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ripple Current and Frequency Multipliers | <table border="1"> <tr> <td rowspan="2">Cap.(μF)</td> <td colspan="4">Freq.(Hz)</td> </tr> <tr> <td>120</td> <td>1k</td> <td>10k</td> <td>100k up</td> </tr> <tr> <td>under ~ 33</td> <td>0.42</td> <td>0.70</td> <td>0.90</td> <td>1.0</td> </tr> <tr> <td>39 ~ 270</td> <td>0.50</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 ~ 18,000</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 | 0.50 | 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 ~ 18,000 | 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 | 0.50 | 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 ~ 18,000 | 0.7 | 0.85 | 0.98 | 1.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

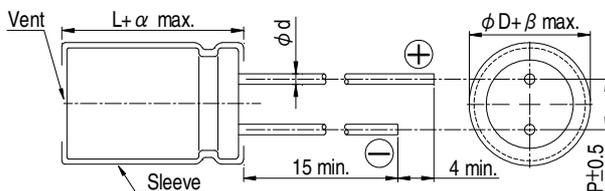
Diagram of Dimensions



Lead Spacing and Diameter Unit: mm

| ϕD | 5 | 6.3 | 8 | 10 | 12.5 | 16 | 18 |
|----------|-------------------------------|-----|-----|-----|------|-----|-----|
| P | 2.0 | 2.5 | 3.5 | 5.0 | 5.0 | 7.5 | 7.5 |
| ϕd | 0.5 | | 0.6 | | | 0.8 | |
| α | $L < 20: 1.5, L \geq 20: 2.0$ | | | | | | |
| β | 0.5 | | | | | | |

The case size of 12.5x16, 16x16, 16x20, 18x16, 18x20 and 18x25 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. V_{DC} Contents Cap. (μF) | 6.3V (0J) | | | | 10V (1A) | | | | 16V (1C) | | | | 25V (1E) | | | |
|---|---------------------------|--|-------------------------|---|---------------------------|--|-------------------------|---|---------------------------|--|-------------------------|---|---------------------------|--|-------------------------|---|
| | $\phi D \times L$ | Impedance (Ω , max./100kHz) | | Ripple Current (mA/rms, 105°C) 100k Hz | $\phi D \times L$ | Impedance (Ω , max./100kHz) | | Ripple Current (mA/rms, 105°C) 100k Hz | $\phi D \times L$ | Impedance (Ω , max./100kHz) | | Ripple Current (mA/rms, 105°C) 100k Hz | $\phi D \times L$ | Impedance (Ω , max./100kHz) | | Ripple Current (mA/rms, 105°C) 100k Hz |
| | | 20°C | -10°C | | | 20°C | -10°C | | | 20°C | -10°C | | | 20°C | -10°C | |
| 47 | | | | | | | | | | | | | 5x11 | 0.58 | 1.16 | 210 |
| 56 | | | | | | | | | 5x11 | 0.58 | 1.16 | 210 | | | | |
| 100 | | | | | 5x11 | 0.58 | 1.16 | 210 | | | | | 6.3x11 | 0.22 | 0.44 | 340 |
| 120 | | | | | | | | | 6.3x11 | 0.22 | 0.44 | 340 | | | | |
| 150 | 5x11 | 0.58 | 1.16 | 210 | | | | | | | | | | | | |
| 220 | | | | | 6.3x11 | 0.22 | 0.44 | 340 | 8x11.5 | 0.11 | 0.22 | 640 | 8x11.5 | 0.11 | 0.22 | 640 |
| 330 | 6.3x11 | 0.22 | 0.44 | 340 | | | | | 8x11.5 | 0.11 | 0.22 | 640 | 8x15 10x12.5 | 0.083 0.080 | 0.166 0.160 | 840 865 |
| 470 | | | | | 8x11.5 | 0.11 | 0.22 | 640 | 8x15 10x12.5 | 0.083 0.080 | 0.166 0.160 | 840 865 | 8x20 10x16 | 0.064 0.060 | 0.128 0.120 | 1,050 1,210 |
| 680 | 8x11.5 | 0.11 | 0.22 | 640 | 8x15 10x12.5 | 0.083 0.080 | 0.166 0.160 | 840 865 | 8x20 10x16 | 0.064 0.060 | 0.128 0.120 | 1,050 1,210 | 10x20 12.5x16 | 0.046 0.049 | 0.092 0.098 | 1,400 1,450 |
| 820 | 10x12.5 | 0.080 | 0.16 | 865 | | | | | | | | | 10x25 | 0.042 | 0.084 | 1,650 |
| 1,000 | 8x15 | 0.087 | 0.174 | 840 | 8x20 10x16 | 0.064 0.060 | 0.128 0.120 | 1,050 1,210 | 10x20 12.5x16 | 0.046 0.049 | 0.092 0.098 | 1,400 1,450 | 10x30 12.5x20 16x16 | 0.031 0.035 0.042 | 0.062 0.070 0.084 | 1,910 1,900 1,940 |
| 1,200 | 8x20 10x16 | 0.069 0.060 | 0.128 0.120 | 1,050 1,210 | 10x20 | 0.046 | 0.092 | 1,400 | 10x25 | 0.042 | 0.084 | 1,650 | 18x16 | 0.043 | 0.086 | 2,210 |
| 1,500 | 10x20 | 0.046 | 0.092 | 1,400 | 10x25 12.5x16 | 0.042 0.049 | 0.084 0.090 | 1,650 1,450 | 10x30 12.5x20 16x16 | 0.031 0.035 0.042 | 0.062 0.070 0.084 | 1,910 1,900 1,940 | 12.5x25 | 0.027 | 0.054 | 2,230 |
| 1,800 | 12.5x16 | 0.045 | 0.090 | 1,450 | | | | | | | | | 12.5x30 16x20 | 0.024 0.027 | 0.048 0.054 | 2,650 2,530 |
| 2,200 | 10x25 | 0.042 | 0.084 | 1,650 | 10x30 12.5x20 16x16 | 0.031 0.035 0.042 | 0.062 0.070 0.084 | 1,910 1,900 1,940 | 12.5x25 18x16 | 0.027 0.043 | 0.054 0.086 | 2,230 2,210 | 12.5x35 18x20 | 0.020 0.026 | 0.040 0.052 | 2,880 2,860 |
| 2,700 | 10x30 16x16 | 0.031 0.042 | 0.062 0.084 | 1,910 1,940 | 18x16 | 0.043 | 0.086 | 2,210 | 12.5x30 16x20 | 0.024 0.027 | 0.048 0.054 | 2,650 2,530 | 12.5x40 16x25 | 0.017 0.021 | 0.034 0.042 | 3,350 2,930 |
| 3,300 | 12.5x20 | 0.035 | 0.070 | 1,900 | 12.5x25 | 0.027 | 0.054 | 2,230 | 12.5x35 | 0.020 | 0.040 | 2,880 | 16x31.5 18x25 | 0.017 0.019 | 0.034 0.038 | 3,450 3,140 |
| 3,900 | 12.5x25 18x16 | 0.027 0.043 | 0.054 0.086 | 2,230 2,210 | 12.5x30 16x20 | 0.024 0.027 | 0.048 0.054 | 2,650 2,530 | 12.5x40 16x25 18x20 | 0.017 0.021 0.026 | 0.034 0.042 0.052 | 3,350 2,930 2,860 | 16x35.5 18x31.5 | 0.015 0.015 | 0.030 0.030 | 3,610 4,170 |
| 4,700 | 12.5x30 | 0.024 | 0.048 | 2,650 | 12.5x35 | 0.020 | 0.040 | 2,880 | 16x31.5 18x25 | 0.017 0.019 | 0.034 0.038 | 3,450 3,140 | 16x40 18x35.5 | 0.013 0.014 | 0.026 0.028 | 4,080 4,220 |
| 5,600 | 12.5x35 16x20 | 0.020 0.027 | 0.040 0.054 | 2,880 2,530 | 12.5x40 16x25 18x20 | 0.017 0.021 0.026 | 0.034 0.042 0.052 | 3,350 2,930 2,860 | 16x35.5 18x31.5 | 0.015 0.015 | 0.030 0.03 | 3,610 4,170 | 18x40 | 0.012 | 0.024 | 4,280 |
| 6,800 | 12.5x40 16x25 18x20 | 0.017 0.021 0.026 | 0.034 0.042 0.052 | 3,350 2,930 2,860 | 16x31.5 18x25 | 0.017 0.019 | 0.034 0.038 | 3,450 3,140 | 16x40 | 0.013 | 0.026 | 4,080 | | | | |
| 8,200 | 16x31.5 | 0.017 | 0.034 | 3,450 | 16x35.5 18x31.5 | 0.015 0.015 | 0.030 0.030 | 3,610 4,170 | 18x35.5 | 0.014 | 0.02 | 4,220 | | | | |
| 10,000 | 16x35.5 18x25 | 0.015 0.019 | 0.030 0.038 | 3,610 3,140 | 16x40 18x35.5 | 0.013 0.014 | 0.026 0.028 | 4,080 4,220 | 18x40 | 0.012 | 0.024 | 4,280 | | | | |
| 12,000 | 16x40 18x31.5 | 0.013 0.015 | 0.026 0.030 | 4,080 4,170 | 18x40 | 0.012 | 0.024 | 4,280 | | | | | | | | |
| 15,000 | 18x35.5 | 0.014 | 0.028 | 4,220 | | | | | | | | | | | | |
| 18,000 | 18x40 | 0.012 | 0.024 | 4,280 | | | | | | | | | | | | |



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

Dimension and Permissible Ripple Current

| Rated Volt. V_{DC} Contents Cap. (μF) | 35V (1V) | | | | 50V (1H) | | | | 63V (1J) | | | |
|---|---------------------------|--|-------------------------|---|---------------------------|--|-------------------------|---|---------------------------|--|-------------------------|---|
| | $\phi D \times L$ | Impedance (Ω , max./100kHz) | | Ripple Current (mA/rms, 105°C) 100k Hz | $\phi D \times L$ | Impedance (Ω , max./100kHz) | | Ripple Current (mA/rms, 105°C) 100k Hz | $\phi D \times L$ | Impedance (Ω , max./100kHz) | | Ripple Current (mA/rms, 105°C) 100k Hz |
| | | 20°C | -10°C | | | 20°C | -10°C | | | 20°C | -10°C | |
| 3.3 | | | | | 5x11 | 2.9 | 5.8 | 53 | | | | |
| 4.7 | | | | | 5x11 | 2.5 | 5.0 | 95 | | | | |
| 10 | | | | | 5x11 | 2.0 | 4.0 | 130 | | | | |
| 15 | | | | | | | | | 5x11 | 1.2 | 2.4 | 165 |
| 22 | | | | | 5x11 | 0.91 | 1.82 | 180 | | | | |
| 33 | 5x11 | 0.58 | 1.16 | 210 | | | | | 6.3x11 | 0.49 | 0.98 | 265 |
| 56 | 6.3x11 | 0.22 | 0.44 | 340 | 6.3x11 | 0.39 | 0.78 | 295 | 8x11.5 | 0.31 | 0.62 | 500 |
| 82 | | | | | | | | | 8x15 10x12.5 | 0.22 0.15 | 0.44 0.30 | 665 690 |
| 100 | | | | | 8x11.5 | 0.22 | 0.44 | 555 | | | | |
| 120 | | | | | 8x15 | 0.190 | 0.38 | 730 | 8x20 10x16 | 0.17 0.11 | 0.34 0.22 | 820 950 |
| 150 | 8x11.5 | 0.11 | 0.22 | 640 | 10x12.5 | 0.160 | 0.32 | 760 | | | | |
| 180 | | | | | 8x20 | 0.17 | 0.34 | 880 | 10x20 12.5x16 | 0.078 0.101 | 0.156 0.202 | 1,150 1,150 |
| 220 | 8x15 10x12.5 | 0.083 0.080 | 0.166 0.160 | 840 865 | 10x16 | 0.110 | 0.22 | 1,050 | 10x25 | 0.064 | 0.128 | 1,350 |
| 270 | 8x20 | 0.064 | 0.128 | 1,050 | 10x20 12.5x16 | 0.078 0.079 | 0.156 0.158 | 1,220 1,260 | 12.5x20 | 0.057 | 0.114 | 1,500 |
| 330 | 10x16 | 0.060 | 0.120 | 1,210 | 10x25 | 0.072 | 0.144 | 1,440 | | | | |
| 390 | | | | | | | | | 12.5x25 | 0.043 | 0.086 | 1,900 |
| 470 | 10x20 12.5x16 | 0.046 0.049 | 0.092 0.098 | 1,400 1,450 | 10x30 12.5x20 16x16 | 0.056 0.059 0.072 | 0.112 0.118 0.114 | 1,690 1,660 1,690 | 12.5x30 16x20 | 0.039 0.045 | 0.078 0.090 | 2,300 2,000 |
| 560 | 10x25 | 0.042 | 0.084 | 1,650 | 12.5x25 18x16 | 0.044 0.070 | 0.088 0.140 | 1,950 1,930 | 12.5x35 | 0.034 | 0.068 | 2,500 |
| 680 | 10x30 12.5x20 16x16 | 0.031 0.035 0.042 | 0.062 0.070 0.084 | 1,910 1,900 1,940 | 12.5x30 | 0.039 | 0.078 | 2,310 | 12.5x40 16x25 18x20 | 0.029 0.035 0.042 | 0.058 0.070 0.084 | 2,800 2,600 2,500 |
| 820 | | | | | 12.5x35 16x20 | 0.033 0.044 | 0.066 0.088 | 2,510 2,210 | 16x31.5 18x25 | 0.029 0.034 | 0.058 0.068 | 2,850 2,800 |
| 1,000 | 12.5x25 18x16 | 0.027 0.043 | 0.054 0.086 | 2,230 2,210 | 12.5x40 16x25 18x20 | 0.027 0.033 0.047 | 0.054 0.066 0.094 | 2,920 2,555 2,490 | 16x35.5 | 0.027 | 0.054 | 2,900 |
| 1,200 | 12.5x30 16x20 | 0.024 0.027 | 0.048 0.054 | 2,650 2,530 | 16x31.5 18x25 | 0.027 0.028 | 0.054 0.056 | 3,010 2,740 | 16x40 18x31.5 | 0.025 0.028 | 0.050 0.056 | 3,400 3,300 |
| 1,500 | 12.5x35 | 0.020 | 0.040 | 2,880 | 16x35.5 | 0.024 | 0.048 | 3,150 | 18x35.5 | 0.025 | 0.050 | 3,400 |
| 1,800 | 12.5x40 16x25 18x20 | 0.017 0.021 0.026 | 0.034 0.042 0.052 | 3,350 2,930 2,860 | 16x40 18x31.5 | 0.021 0.024 | 0.042 0.048 | 3,710 3,635 | 18x40 | 0.024 | 0.048 | 3,500 |
| 2,200 | 16x31.5 18x25 | 0.017 0.019 | 0.034 0.038 | 3,450 3,140 | 18x35.5 | 0.022 | 0.044 | 3,680 | | | | |
| 2,700 | 16x35.5 18x31.5 | 0.015 0.015 | 0.030 0.030 | 3,610 4,170 | 18x40 | 0.018 | 0.036 | 3,800 | | | | |
| 3,300 | 16x40 18x35.5 | 0.013 0.014 | 0.026 0.028 | 4,080 4,220 | | | | | | | | |
| 3,900 | 18x40 | 0.012 | 0.024 | 4,280 | | | | | | | | |

Part Numbering System

RZW Series 470 μF $\pm 20\%$ 16V Bulk Package Gas Type 8 ϕ x15L Pb-free and PET sleeve

RZW **471** **M** **1C** **BK** - **0815**

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.

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[NRELS102M35V16X16C.140LLF](#) [ESRG160ETC100MD07D](#) [227RZS050M](#) [335CKR250M](#) [476CKH100MSA](#) [477CKR100M](#)
[107CKR010M](#) [107CKH063MSA](#) [RJH-25V222MI9#](#) [RJH-35V221MG5#](#) [B43827A1106M8](#) [RJH-50V221MH6#](#) [EKYA500ELL470MF11D](#)
[B41022A5686M6](#) [ESRG250ELL101MH09D](#) [EKMA160EC3101MF07D](#) [RJB-10V471MG3#](#) [ESMG160ETD221MF11D](#)
[EKZH160ETD152MJ20S](#) [RJH-35V122MJ6#](#) [EGXF630ELL621ML20S](#) [RBD-25V100KE3#N](#) [EKMA350ELL100ME07D](#)
[ESMG160ETD101ME11D](#) [ELXY100ETD102MJ20S](#) [EGXF500ELL561ML15S](#) [EKMG350ETD471MJ16S](#) [35YXA330MEFC10X12.5](#)
[RXW471M1ESA-0815](#) [ELXZ630ELL221MJ25S](#) [ERR1HM1R0D11OT](#) [LPE681M30060FVA](#) [LPL471M22030FVA](#) [HFE221M25030FVA](#)
[LKMD1401H221MF](#) [B41888G6108M000](#) [EKMA160ETD470MF07D](#) [UHW1J102MHD6](#) [EKMG500ETD221MJC5S](#) [LKMK2502W101MF](#)
[LKMD1401H181MF](#) [LKMI2502G820MF](#) [LKMJ2001J122MF](#) [LKML2501C472MF](#) [LKMJ4002C681MF](#) [450MXH330MEFCSN25X45](#)
[450MXK330MA2RFC22X50](#) [63ZLH560MEFCG412.5X30](#) [ELH2DM331O25KT](#) [ELH2DM471P30KT](#)