



## RXJ Series

### Features

- 105°C, 2,000 ~ 5,000 hours assured
- Low ESR, suitable for switching power supplies
- Smaller size with large permissible ripple current
- RoHS Compliance

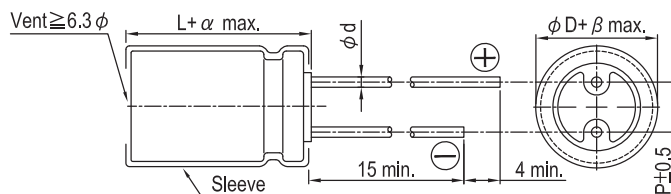


Sleeve & Marking Color: Brown & White

### Specifications

| Items                                                                             | Performance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 |                                                        |      |      |              |      |      |     |     |                      |         |     |     |    |     |      |          |      |            |      |      |      |      |          |      |      |      |      |      |      |             |      |      |      |      |      |      |                |      |      |      |      |      |      |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------|------|------|--------------|------|------|-----|-----|----------------------|---------|-----|-----|----|-----|------|----------|------|------------|------|------|------|------|----------|------|------|------|------|------|------|-------------|------|------|------|------|------|------|----------------|------|------|------|------|------|------|
| Category Temperature Range                                                        | 6.3 ~ 63V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 |                                                        |      |      | 100V         |      |      |     |     |                      |         |     |     |    |     |      |          |      |            |      |      |      |      |          |      |      |      |      |      |      |             |      |      |      |      |      |      |                |      |      |      |      |      |      |
|                                                                                   | -55℃ ~ +105℃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                                                        |      |      | -40℃ ~ +105℃ |      |      |     |     |                      |         |     |     |    |     |      |          |      |            |      |      |      |      |          |      |      |      |      |      |      |             |      |      |      |      |      |      |                |      |      |      |      |      |      |
| Capacitance Tolerance                                                             | ±20% (at 120Hz, 20℃)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 |                                                        |      |      |              |      |      |     |     |                      |         |     |     |    |     |      |          |      |            |      |      |      |      |          |      |      |      |      |      |      |             |      |      |      |      |      |      |                |      |      |      |      |      |      |
| Leakage Current (at 20℃)                                                          | I = 0.01CV or 3 (μA) whichever is greater (after 2 minutes)<br>Where, C = rated capacitance in μF, V = rated DC working voltage in V                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 |                                                        |      |      |              |      |      |     |     |                      |         |     |     |    |     |      |          |      |            |      |      |      |      |          |      |      |      |      |      |      |             |      |      |      |      |      |      |                |      |      |      |      |      |      |
| Tanδ (at 120Hz, 20℃)                                                              | <table><tr><td>Rated Voltage</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>100</td></tr><tr><td>Tanδ (max)</td><td>0.22</td><td>0.19</td><td>0.16</td><td>0.14</td><td>0.12</td><td>0.10</td><td>0.09</td><td>0.08</td></tr></table>                                                                                                                                                                                                                                                                                               |                 |                                                        |      |      |              |      |      |     |     | Rated Voltage        | 6.3     | 10  | 16  | 25 | 35  | 50   | 63       | 100  | Tanδ (max) | 0.22 | 0.19 | 0.16 | 0.14 | 0.12     | 0.10 | 0.09 | 0.08 |      |      |      |             |      |      |      |      |      |      |                |      |      |      |      |      |      |
|                                                                                   | Rated Voltage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6.3             | 10                                                     | 16   | 25   | 35           | 50   | 63   | 100 |     |                      |         |     |     |    |     |      |          |      |            |      |      |      |      |          |      |      |      |      |      |      |             |      |      |      |      |      |      |                |      |      |      |      |      |      |
| Tanδ (max)                                                                        | 0.22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.19            | 0.16                                                   | 0.14 | 0.12 | 0.10         | 0.09 | 0.08 |     |     |                      |         |     |     |    |     |      |          |      |            |      |      |      |      |          |      |      |      |      |      |      |             |      |      |      |      |      |      |                |      |      |      |      |      |      |
| When the capacitance exceeds 1,000μF, 0.02 shall be added every 1,000μF increase. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 |                                                        |      |      |              |      |      |     |     |                      |         |     |     |    |     |      |          |      |            |      |      |      |      |          |      |      |      |      |      |      |             |      |      |      |      |      |      |                |      |      |      |      |      |      |
| Low Temperature Characteristics (at 120Hz)                                        | Impedance ratio shall not exceed the values given in the table below.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |                                                        |      |      |              |      |      |     |     |                      |         |     |     |    |     |      |          |      |            |      |      |      |      |          |      |      |      |      |      |      |             |      |      |      |      |      |      |                |      |      |      |      |      |      |
|                                                                                   | Rated Voltage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                 | 6.3                                                    | 10   | 16   | 25           | 35   | 50   | 63  | 100 |                      |         |     |     |    |     |      |          |      |            |      |      |      |      |          |      |      |      |      |      |      |             |      |      |      |      |      |      |                |      |      |      |      |      |      |
| Impedance Ratio                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Z(-55℃)/Z(+20℃) | 4                                                      | 4    | 3    | 3            | 3    | 3    | 3   | 3   |                      |         |     |     |    |     |      |          |      |            |      |      |      |      |          |      |      |      |      |      |      |             |      |      |      |      |      |      |                |      |      |      |      |      |      |
| Endurance                                                                         | Test Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 | 2,000 Hrs for ϕ D ≤ 8 mm;<br>5,000 Hrs for ϕ D ≥ 10 mm |      |      |              |      |      |     |     |                      |         |     |     |    |     |      |          |      |            |      |      |      |      |          |      |      |      |      |      |      |             |      |      |      |      |      |      |                |      |      |      |      |      |      |
|                                                                                   | Capacitance Change                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 | Within ±20% of initial value                           |      |      |              |      |      |     |     |                      |         |     |     |    |     |      |          |      |            |      |      |      |      |          |      |      |      |      |      |      |             |      |      |      |      |      |      |                |      |      |      |      |      |      |
|                                                                                   | Tanδ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 | Less than 200% of specified value                      |      |      |              |      |      |     |     |                      |         |     |     |    |     |      |          |      |            |      |      |      |      |          |      |      |      |      |      |      |             |      |      |      |      |      |      |                |      |      |      |      |      |      |
|                                                                                   | Leakage Current                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 | Within specified value                                 |      |      |              |      |      |     |     |                      |         |     |     |    |     |      |          |      |            |      |      |      |      |          |      |      |      |      |      |      |             |      |      |      |      |      |      |                |      |      |      |      |      |      |
|                                                                                   | * The above specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage applied with rated ripple current for 2,000/5,000 hours at 105℃.                                                                                                                                                                                                                                                                                                                                                                                             |                 |                                                        |      |      |              |      |      |     |     |                      |         |     |     |    |     |      |          |      |            |      |      |      |      |          |      |      |      |      |      |      |             |      |      |      |      |      |      |                |      |      |      |      |      |      |
| Shelf Life Test                                                                   | Test Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 | 1,000 Hrs                                              |      |      |              |      |      |     |     |                      |         |     |     |    |     |      |          |      |            |      |      |      |      |          |      |      |      |      |      |      |             |      |      |      |      |      |      |                |      |      |      |      |      |      |
|                                                                                   | Capacitance Change                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 | Within ±20% of initial value                           |      |      |              |      |      |     |     |                      |         |     |     |    |     |      |          |      |            |      |      |      |      |          |      |      |      |      |      |      |             |      |      |      |      |      |      |                |      |      |      |      |      |      |
|                                                                                   | Tanδ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 | Less than 200% of specified value                      |      |      |              |      |      |     |     |                      |         |     |     |    |     |      |          |      |            |      |      |      |      |          |      |      |      |      |      |      |             |      |      |      |      |      |      |                |      |      |      |      |      |      |
|                                                                                   | Leakage Current                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 | Within specified value                                 |      |      |              |      |      |     |     |                      |         |     |     |    |     |      |          |      |            |      |      |      |      |          |      |      |      |      |      |      |             |      |      |      |      |      |      |                |      |      |      |      |      |      |
|                                                                                   | * The above specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 1,000 hours at 105℃ without voltage applied.                                                                                                                                                                                                                                                                                                                                                                                                                 |                 |                                                        |      |      |              |      |      |     |     |                      |         |     |     |    |     |      |          |      |            |      |      |      |      |          |      |      |      |      |      |      |             |      |      |      |      |      |      |                |      |      |      |      |      |      |
| Ripple Current and Frequency Multipliers                                          | <table><tr><th>Cap.(μF) \ Freq.(Hz)</th><th>60 (50)</th><th>120</th><th>500</th><th>1k</th><th>10k</th><th>100k</th></tr><tr><td>Under 33</td><td>0.40</td><td>0.55</td><td>0.65</td><td>0.80</td><td>0.90</td><td>1.00</td></tr><tr><td>39 ~ 330</td><td>0.60</td><td>0.70</td><td>0.80</td><td>0.90</td><td>0.95</td><td>1.00</td></tr><tr><td>390 ~ 1,000</td><td>0.65</td><td>0.80</td><td>0.85</td><td>0.98</td><td>1.00</td><td>1.00</td></tr><tr><td>1,200 up above</td><td>0.80</td><td>0.90</td><td>0.95</td><td>0.98</td><td>1.00</td><td>1.00</td></tr></table> |                 |                                                        |      |      |              |      |      |     |     | Cap.(μF) \ Freq.(Hz) | 60 (50) | 120 | 500 | 1k | 10k | 100k | Under 33 | 0.40 | 0.55       | 0.65 | 0.80 | 0.90 | 1.00 | 39 ~ 330 | 0.60 | 0.70 | 0.80 | 0.90 | 0.95 | 1.00 | 390 ~ 1,000 | 0.65 | 0.80 | 0.85 | 0.98 | 1.00 | 1.00 | 1,200 up above | 0.80 | 0.90 | 0.95 | 0.98 | 1.00 | 1.00 |
|                                                                                   | Cap.(μF) \ Freq.(Hz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 60 (50)         | 120                                                    | 500  | 1k   | 10k          | 100k |      |     |     |                      |         |     |     |    |     |      |          |      |            |      |      |      |      |          |      |      |      |      |      |      |             |      |      |      |      |      |      |                |      |      |      |      |      |      |
|                                                                                   | Under 33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.40            | 0.55                                                   | 0.65 | 0.80 | 0.90         | 1.00 |      |     |     |                      |         |     |     |    |     |      |          |      |            |      |      |      |      |          |      |      |      |      |      |      |             |      |      |      |      |      |      |                |      |      |      |      |      |      |
|                                                                                   | 39 ~ 330                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.60            | 0.70                                                   | 0.80 | 0.90 | 0.95         | 1.00 |      |     |     |                      |         |     |     |    |     |      |          |      |            |      |      |      |      |          |      |      |      |      |      |      |             |      |      |      |      |      |      |                |      |      |      |      |      |      |
|                                                                                   | 390 ~ 1,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.65            | 0.80                                                   | 0.85 | 0.98 | 1.00         | 1.00 |      |     |     |                      |         |     |     |    |     |      |          |      |            |      |      |      |      |          |      |      |      |      |      |      |             |      |      |      |      |      |      |                |      |      |      |      |      |      |
|                                                                                   | 1,200 up above                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.80            | 0.90                                                   | 0.95 | 0.98 | 1.00         | 1.00 |      |     |     |                      |         |     |     |    |     |      |          |      |            |      |      |      |      |          |      |      |      |      |      |      |             |      |      |      |      |      |      |                |      |      |      |      |      |      |

### 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                         |     |     |     |      |     |     |



## Dimension and Permissible Ripple Current

Dimension:  $\phi D \times L(\text{mm})$

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

| Cap. ( $\mu\text{F}$ ) | Contents | 6.3V (0J)         |                                      |       |                                |         | 10V (1A)          |                                      |       |                                |         | 16V (1C)          |                                      |       |                                |         |
|------------------------|----------|-------------------|--------------------------------------|-------|--------------------------------|---------|-------------------|--------------------------------------|-------|--------------------------------|---------|-------------------|--------------------------------------|-------|--------------------------------|---------|
|                        |          | $\phi D \times L$ | Impedance ( $\Omega$ , max./100k Hz) |       | Ripple Current (mA/rms, 105°C) |         | $\phi D \times L$ | Impedance ( $\Omega$ , max./100k Hz) |       | Ripple Current (mA/rms, 105°C) |         | $\phi D \times L$ | Impedance ( $\Omega$ , max./100k Hz) |       | Ripple Current (mA/rms, 105°C) |         |
|                        |          |                   | 20°C                                 | -10°C | 120 Hz                         | 100k Hz |                   | 20°C                                 | -10°C | 120 Hz                         | 100k Hz |                   | 20°C                                 | -10°C | 120 Hz                         | 100k Hz |
| 33                     |          |                   |                                      |       |                                |         |                   |                                      |       |                                |         | 5×11              | 1.30                                 | 3.90  | 108                            | 154     |
| 39                     |          |                   |                                      |       |                                |         |                   |                                      |       |                                |         | 5×11              | 1.30                                 | 3.90  | 108                            | 154     |
| 47                     |          |                   |                                      |       |                                |         | 5×11              | 2.10                                 | 5.50  | 78                             | 111     | 6.3×11            | 0.60                                 | 1.80  | 182                            | 260     |
| 56                     |          |                   |                                      |       |                                |         | 5×11              | 1.90                                 | 4.80  | 85                             | 121     | 6.3×11            | 0.60                                 | 1.80  | 182                            | 260     |
| 68                     |          |                   |                                      |       |                                |         | 5×11              | 1.30                                 | 3.90  | 108                            | 154     | 6.3×11            | 0.60                                 | 1.80  | 182                            | 260     |
| 100                    |          | 5×11              | 1.30                                 | 3.90  | 108                            | 154     | 6.3×11            | 0.60                                 | 1.80  | 182                            | 260     | 6.3×11            | 0.60                                 | 1.80  | 182                            | 260     |
| 220                    |          | 6.3×11            | 0.60                                 | 1.80  | 182                            | 260     | 8×11.5            | 0.33                                 | 0.99  | 280                            | 400     | 8×11.5            | 0.33                                 | 0.99  | 320                            | 400     |
| 330                    |          | 8×11.5            | 0.33                                 | 0.88  | 280                            | 400     | 8×11.5            | 0.33                                 | 0.99  | 280                            | 400     | 10×12.5           | 0.25                                 | 0.75  | 360                            | 510     |
| 390                    |          | 8×11.5            | 0.33                                 | 0.88  | 320                            | 400     | 10×12.5           | 0.27                                 | 0.75  | 410                            | 510     | 10×16             | 0.19                                 | 0.57  | 510                            | 635     |
| 470                    |          | 10×12.5           | 0.25                                 | 0.75  | 410                            | 510     | 10×12.5           | 0.25                                 | 0.75  | 410                            | 510     | 10×16             | 0.19                                 | 0.57  | 510                            | 635     |
| 560                    |          | 10×12.5           | 0.25                                 | 0.75  | 410                            | 510     | 10×16             | 0.19                                 | 0.57  | 510                            | 635     | 10×20             | 0.14                                 | 0.42  | 775                            | 860     |
| 680                    |          | 10×16             | 0.19                                 | 0.57  | 510                            | 635     | 10×16             | 0.19                                 | 0.57  | 510                            | 635     | 10×20             | 0.14                                 | 0.42  | 775                            | 860     |
| 1,000                  |          | 10×20             | 0.14                                 | 0.42  | 690                            | 860     | 10×20             | 0.14                                 | 0.37  | 690                            | 860     | 12.5×20           | 0.085                                | 0.26  | 1,000                          | 1,250   |
| 1,200                  |          | 10×20             | 0.14                                 | 0.42  | 775                            | 860     | 10×25             | 0.12                                 | 0.30  | 930                            | 1,030   | 12.5×20           | 0.085                                | 0.26  | 1,125                          | 1,250   |
| 2,200                  |          | 12.5×20           | 0.085                                | 0.26  | 1,125                          | 1,250   | 12.5×25           | 0.070                                | 0.21  | 1,200                          | 1,355   | 12.5×25           | 0.070                                | 0.21  | 1,200                          | 1,355   |
| 3,300                  |          | 12.5×25           | 0.070                                | 0.21  | 1,200                          | 1,355   | 12.5×25           | 0.070                                | 0.21  | 1,200                          | 1,355   | 16×31.5           | 0.048                                | 0.14  | 1,830                          | 2,030   |
| 4,700                  |          | 16×25             | 0.060                                | 0.18  | 1,595                          | 1,770   | 16×31.5           | 0.048                                | 0.14  | 1,830                          | 2,030   | 16×35.5           | 0.044                                | 0.13  | 2,065                          | 2,295   |

| Cap. ( $\mu\text{F}$ ) | Contents | 25V (1E)          |                                      |       |                                |        | 35V (1V)          |                                      |       |                                |        | 50V (1H)          |                                      |       |                                |        |
|------------------------|----------|-------------------|--------------------------------------|-------|--------------------------------|--------|-------------------|--------------------------------------|-------|--------------------------------|--------|-------------------|--------------------------------------|-------|--------------------------------|--------|
|                        |          | $\phi D \times L$ | Impedance ( $\Omega$ , max./100k Hz) |       | Ripple Current (mA/rms, 105°C) |        | $\phi D \times L$ | Impedance ( $\Omega$ , max./100k Hz) |       | Ripple Current (mA/rms, 105°C) |        | $\phi D \times L$ | Impedance ( $\Omega$ , max./100k Hz) |       | Ripple Current (mA/rms, 105°C) |        |
|                        |          |                   | 20°C                                 | -10°C | 120Hz                          | 100KHz |                   | 20°C                                 | -10°C | 120Hz                          | 100KHz |                   | 20°C                                 | -10°C | 120Hz                          | 100KHz |
| 2.2                    |          |                   |                                      |       |                                |        |                   |                                      |       |                                |        | 5×11              | 4.0                                  | 12.0  | 48                             | 88     |
| 3.3                    |          |                   |                                      |       |                                |        |                   |                                      |       |                                |        | 5×11              | 3.50                                 | 11.0  | 52                             | 94     |
| 4.7                    |          |                   |                                      |       |                                |        |                   |                                      |       |                                |        | 5×11              | 3.00                                 | 9.00  | 55                             | 100    |
| 6.8                    |          |                   |                                      |       |                                |        |                   |                                      |       |                                |        | 5×11              | 3.00                                 | 9.00  | 55                             | 100    |
| 10                     |          |                   |                                      |       |                                |        |                   |                                      |       |                                |        | 5×11              | 2.00                                 | 6.00  | 68                             | 124    |
| 22                     |          |                   |                                      |       |                                |        | 5×11              | 1.30                                 | 3.90  | 108                            | 154    | 6.3×11            | 0.60                                 | 1.80  | 143                            | 260    |
| 33                     |          | 5×11              | 1.30                                 | 3.90  | 108                            | 154    | 6.3×11            | 0.60                                 | 1.80  | 182                            | 260    | 6.3×11            | 0.60                                 | 1.80  | 143                            | 260    |
| 39                     |          | 6.3×11            | 0.60                                 | 1.80  | 182                            | 260    | 6.3×11            | 0.60                                 | 1.80  | 182                            | 260    | 6.3×11            | 0.60                                 | 1.80  | 182                            | 260    |
| 47                     |          | 6.3×11            | 0.60                                 | 1.80  | 182                            | 260    | 6.3×11            | 0.60                                 | 1.80  | 182                            | 260    | 8×11.5            | 0.33                                 | 0.99  | 320                            | 400    |
| 56                     |          | 6.3×11            | 0.60                                 | 1.80  | 182                            | 260    | 6.3×11            | 0.60                                 | 1.80  | 182                            | 260    | 8×11.5            | 0.33                                 | 0.99  | 320                            | 400    |
| 68                     |          | 6.3×11            | 0.60                                 | 1.80  | 182                            | 260    | 6.3×11            | 0.60                                 | 1.80  | 182                            | 260    | 8×11.5            | 0.33                                 | 0.99  | 320                            | 400    |
| 100                    |          | 8×11.5            | 0.33                                 | 0.99  | 320                            | 400    | 8×11.5            | 0.33                                 | 0.99  | 320                            | 400    | 10×16             | 0.19                                 | 0.57  | 445                            | 635    |
| 220                    |          | 10×12.5           | 0.25                                 | 0.75  | 360                            | 510    | 10×16             | 0.19                                 | 0.57  | 445                            | 635    | 10×25             | 0.12                                 | 0.30  | 825                            | 1,030  |
| 330                    |          | 10×16             | 0.19                                 | 0.57  | 445                            | 635    | 10×20             | 0.12                                 | 0.42  | 600                            | 860    | 12.5×20           | 0.085                                | 0.26  | 875                            | 1,250  |
| 390                    |          | 10×20             | 0.14                                 | 0.42  | 775                            | 965    | 10×25             | 0.12                                 | 0.30  | 930                            | 1,030  | 12.5×25           | 0.070                                | 0.21  | 1,085                          | 1,355  |
| 470                    |          | 10×20             | 0.14                                 | 0.42  | 775                            | 965    | 12.5×20           | 0.085                                | 0.26  | 1,000                          | 1,250  | 12.5×25           | 0.070                                | 0.21  | 1,085                          | 1,355  |
| 560                    |          | 10×25             | 0.12                                 | 0.30  | 930                            | 1,030  | 12.5×20           | 0.085                                | 0.26  | 1,000                          | 1,250  | 12.5×25           | 0.070                                | 0.21  | 1,085                          | 1,355  |
| 680                    |          | 12.5×20           | 0.085                                | 0.26  | 1,000                          | 1,250  | 12.5×25           | 0.070                                | 0.21  | 1,085                          | 1,355  | 16×25             | 0.060                                | 0.18  | 1,415                          | 1,770  |
| 1,000                  |          | 12.5×25           | 0.070                                | 0.23  | 1,080                          | 1,355  | 12.5×25           | 0.070                                | 0.21  | 1,085                          | 1,355  | 16×25             | 0.060                                | 0.18  | 1,595                          | 1,770  |
| 1,200                  |          | 12.5×25           | 0.070                                | 0.21  | 1,200                          | 1,355  | 12.5×25           | 0.070                                | 0.21  | 1,200                          | 1,355  | 16×31.5           | 0.048                                | 0.14  | 1,830                          | 2,030  |
| 2,200                  |          | 16×25             | 0.060                                | 0.18  | 1,595                          | 1,770  | 16×35.5           | 0.044                                | 0.13  | 2,065                          | 2,295  | 18×40             | 0.037                                | 0.10  | 2,465                          | 2,740  |
| 3,300                  |          | 16×35.5           | 0.044                                | 0.13  | 2,065                          | 2,295  | 18×40             | 0.037                                | 0.10  | 2,465                          | 2,740  |                   |                                      |       |                                |        |
| 4,700                  |          | 18×40             | 0.037                                | 0.10  | 2,465                          | 2,740  |                   |                                      |       |                                |        |                   |                                      |       |                                |        |



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

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

Dimension and Permissible Ripple Current

| Cap. (μF)<br>Contents | Rated Volt.<br>V <sub>DC</sub> | 63V (1J)          |                                         |       |                                   |         | 100V (2A)         |                                         |       |                                   |         |
|-----------------------|--------------------------------|-------------------|-----------------------------------------|-------|-----------------------------------|---------|-------------------|-----------------------------------------|-------|-----------------------------------|---------|
|                       |                                | $\phi D \times L$ | Impedance<br>( $\Omega$ , max./100k Hz) |       | Ripple Current<br>(mA/rms, 105°C) |         | $\phi D \times L$ | Impedance<br>( $\Omega$ , max./100k Hz) |       | Ripple Current<br>(mA/rms, 105°C) |         |
|                       |                                |                   | 20°C                                    | -10°C | 120 Hz                            | 100k Hz |                   | 20°C                                    | -10°C | 120 Hz                            | 100k Hz |
| 2.2                   |                                |                   |                                         |       |                                   |         | 5×11              | 6.00                                    | 21.0  | 40                                | 72      |
| 3.3                   |                                |                   |                                         |       |                                   |         | 5×11              | 5.00                                    | 18.0  | 43                                | 78      |
| 4.7                   |                                |                   |                                         |       |                                   |         | 6.3×11            | 1.20                                    | 4.20  | 100                               | 180     |
| 6.8                   |                                |                   |                                         |       |                                   |         | 6.3×11            | 1.20                                    | 4.20  | 100                               | 180     |
| 10                    |                                | 6.3×11            | 1.20                                    | 4.20  | 100                               | 180     | 8×11.5            | 0.56                                    | 2.00  | 168                               | 305     |
| 22                    |                                | 6.3×11            | 1.20                                    | 4.20  | 100                               | 180     | 8×11.5            | 0.56                                    | 2.00  | 168                               | 308     |
| 33                    |                                | 8×11.5            | 0.56                                    | 2.00  | 170                               | 305     | 10×12.5           | 0.50                                    | 1.80  | 210                               | 380     |
| 39                    |                                | 8×11.5            | 0.56                                    | 2.00  | 170                               | 305     | 10×16             | 0.32                                    | 1.10  | 350                               | 500     |
| 47                    |                                | 8×11.5            | 0.56                                    | 2.00  | 170                               | 305     | 10×20             | 0.27                                    | 0.95  | 435                               | 620     |
| 56                    |                                | 10×12.5           | 0.50                                    | 1.80  | 265                               | 380     | 10×20             | 0.27                                    | 0.95  | 435                               | 620     |
| 68                    |                                | 10×12.5           | 0.50                                    | 1.80  | 265                               | 380     | 10×25             | 0.21                                    | 0.63  | 530                               | 760     |
| 100                   |                                | 10×20             | 0.27                                    | 0.95  | 435                               | 620     | 12.5×20           | 0.16                                    | 0.56  | 625                               | 890     |
| 220                   |                                | 12.5×20           | 0.094                                   | 0.24  | 570                               | 820     | 16×25             | 0.090                                   | 0.32  | 1,010                             | 1,440   |
| 330                   |                                | 12.5×25           | 0.073                                   | 0.21  | 770                               | 1,100   | 16×31.5           | 0.060                                   | 0.17  | 1,255                             | 1,790   |
| 390                   |                                | 12.5×25           | 0.073                                   | 0.21  | 770                               | 1,100   | 16×35.5           | 0.056                                   | 0.14  | 1,650                             | 2,065   |
| 470                   |                                | 16×25             | 0.060                                   | 0.18  | 1,420                             | 1,770   |                   |                                         |       |                                   |         |
| 560                   |                                | 16×31.5           | 0.048                                   | 0.14  | 1,625                             | 2,030   |                   |                                         |       |                                   |         |
| 680                   |                                | 16×31.5           | 0.048                                   | 0.14  | 1,625                             | 2,030   |                   |                                         |       |                                   |         |
| 1,000                 |                                | 18×35.5           | 0.041                                   | 0.11  | 1,790                             | 2,240   |                   |                                         |       |                                   |         |

## Part Numbering System

|             |             |                       |               |                              |             |                   |                           |
|-------------|-------------|-----------------------|---------------|------------------------------|-------------|-------------------|---------------------------|
| RXJ Series  | 470μF       | ±20%                  | 6.3V          | Bulk Package                 | Gas Type    | 10 $\phi$ × 12.5L | Pb-free and PET sleeve    |
| <b>RXJ</b>  | <b>471</b>  | <b>M</b>              | <b>0J</b>     | <b>BK</b>                    | -           | <b>1012</b>       |                           |
| Series Name | Capacitance | Capacitance Tolerance | Rated Voltage | Lead Configuration & Package | Rubber Type | Case Size         | Lead Wire and Sleeve type |

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



**Стандарт  
Электрон  
Связь**

Мы молодая и активно развивающаяся компания в области поставок электронных компонентов. Мы поставляем электронные компоненты отечественного и импортного производства напрямую от производителей и с крупнейших складов мира.

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