



## 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

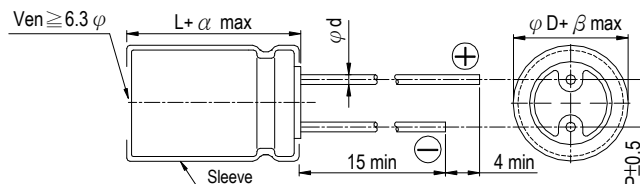


Sleeve & Marking Color: Brown & White

### Specifications

|                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                        |      |      |      |                |      |      |      |                      |                                                        |     |     |    |     |      |          |      |                    |                              |      |      |      |          |      |      |      |      |                                   |      |             |      |      |      |      |      |                 |                        |      |      |      |      |      |      |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|------|------|------|----------------|------|------|------|----------------------|--------------------------------------------------------|-----|-----|----|-----|------|----------|------|--------------------|------------------------------|------|------|------|----------|------|------|------|------|-----------------------------------|------|-------------|------|------|------|------|------|-----------------|------------------------|------|------|------|------|------|------|--|
| Items                                                                                                                                                                            | Performance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                        |      |      |      |                |      |      |      |                      |                                                        |     |     |    |     |      |          |      |                    |                              |      |      |      |          |      |      |      |      |                                   |      |             |      |      |      |      |      |                 |                        |      |      |      |      |      |      |  |
| Category Temperature Range                                                                                                                                                       | 6.3 ~ 63V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                        |      |      |      | 100V           |      |      |      |                      |                                                        |     |     |    |     |      |          |      |                    |                              |      |      |      |          |      |      |      |      |                                   |      |             |      |      |      |      |      |                 |                        |      |      |      |      |      |      |  |
|                                                                                                                                                                                  | -55°C ~ +105°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                        |      |      |      | -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 120Hz, 20°C)                                                                                                                                                            | <table><tr><td>Rated Voltage</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>100</td></tr><tr><td>Tanδ (max)</td><td>0.22</td><td>0.19</td><td>0.16</td><td>0.14</td><td>0.12</td><td>0.10</td><td>0.09</td><td>0.08</td></tr></table>                                                                                                                                                                                                                                                                                                           |                                                        |      |      |      |                |      |      |      | Rated Voltage        | 6.3                                                    | 10  | 16  | 25 | 35  | 50   | 63       | 100  | Tanδ (max)         | 0.22                         | 0.19 | 0.16 | 0.14 | 0.12     | 0.10 | 0.09 | 0.08 |      |                                   |      |             |      |      |      |      |      |                 |                        |      |      |      |      |      |      |  |
|                                                                                                                                                                                  | Rated Voltage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 6.3                                                    | 10   | 16   | 25   | 35             | 50   | 63   | 100  |                      |                                                        |     |     |    |     |      |          |      |                    |                              |      |      |      |          |      |      |      |      |                                   |      |             |      |      |      |      |      |                 |                        |      |      |      |      |      |      |  |
|                                                                                                                                                                                  | Tanδ (max)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.22                                                   | 0.19 | 0.16 | 0.14 | 0.12           | 0.10 | 0.09 | 0.08 |                      |                                                        |     |     |    |     |      |          |      |                    |                              |      |      |      |          |      |      |      |      |                                   |      |             |      |      |      |      |      |                 |                        |      |      |      |      |      |      |  |
| When the capacitance exceeds 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°C)/Z(+20°C)                                      | 4    | 4    | 3    | 3              | 3    | 3    | 3    | 3                    |                                                        |     |     |    |     |      |          |      |                    |                              |      |      |      |          |      |      |      |      |                                   |      |             |      |      |      |      |      |                 |                        |      |      |      |      |      |      |  |
| Endurance                                                                                                                                                                        | <table><tr><td>Test Time</td><td colspan="8">2,000 Hrs for ϕ D ≤ 8 mm;<br/>5,000 Hrs for ϕ D ≥ 10 mm</td></tr><tr><td>Capacitance Change</td><td colspan="8">Within ±20% of initial value</td></tr><tr><td>Tanδ</td><td colspan="8">Less than 200% of specified value</td></tr><tr><td>Leakage Current</td><td colspan="8">Within specified value</td></tr></table>                                                                                                                                                                                                                    |                                                        |      |      |      |                |      |      |      | 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 |      |      |      |      |      |      |  |
|                                                                                                                                                                                  | 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°C after the rated voltage applied with rated ripple current for 2,000/5,000 hours at 105°C. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                        |      |      |      |                |      |      |      |                      |                                                        |     |     |    |     |      |          |      |                    |                              |      |      |      |          |      |      |      |      |                                   |      |             |      |      |      |      |      |                 |                        |      |      |      |      |      |      |  |
| Shelf Life Test                                                                                                                                                                  | <table><tr><td>Test Time</td><td colspan="8">1,000 Hrs</td></tr><tr><td>Capacitance Change</td><td colspan="8">Within ±20% of initial value</td></tr><tr><td>Tanδ</td><td colspan="8">Less than 200% of specified value</td></tr><tr><td>Leakage Current</td><td colspan="8">Within specified value</td></tr></table>                                                                                                                                                                                                                                                                  |                                                        |      |      |      |                |      |      |      | Test Time            | 1,000 Hrs                                              |     |     |    |     |      |          |      | Capacitance Change | Within ±20% of initial value |      |      |      |          |      |      |      | Tanδ | Less than 200% of specified value |      |             |      |      |      |      |      | Leakage Current | Within specified value |      |      |      |      |      |      |  |
|                                                                                                                                                                                  | 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°C after exposing them for 1,000 hours at 105°C without voltage applied.                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                        |      |      |      |                |      |      |      |                      |                                                        |     |     |    |     |      |          |      |                    |                              |      |      |      |          |      |      |      |      |                                   |      |             |      |      |      |      |      |                 |                        |      |      |      |      |      |      |  |
| Ripple Current & Frequency Multipliers                                                                                                                                           | <table><tr><td rowspan="5">Cap.(μF) \ Freq.(Hz)</td><td>60 (50)</td><td>120</td><td>500</td><td>1k</td><td>10k</td><td>100k</td></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:  $\phi D \times L(\text{mm})$

Dimension & Permissible Ripple Current

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

| V. DC<br>Item<br>$\mu\text{F}$ | 6.3V (0J)         |                                        |       |                                   |         | 10V (1A)          |                                        |       |                                   |         | 16V (1C)          |                                        |       |                                   |         |
|--------------------------------|-------------------|----------------------------------------|-------|-----------------------------------|---------|-------------------|----------------------------------------|-------|-----------------------------------|---------|-------------------|----------------------------------------|-------|-----------------------------------|---------|
|                                | $\phi D \times L$ | 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) |         | $\phi D \times L$ | 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 |                   | 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   |

| V. DC<br>Item<br>$\mu\text{F}$ | 25V (1E)          |                                        |       |                                   |        | 35V (1V)          |                                        |       |                                   |        | 50V (1H)          |                                        |       |                                   |        |
|--------------------------------|-------------------|----------------------------------------|-------|-----------------------------------|--------|-------------------|----------------------------------------|-------|-----------------------------------|--------|-------------------|----------------------------------------|-------|-----------------------------------|--------|
|                                | $\phi D \times L$ | 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) |        | $\phi D \times L$ | Impedance<br>( $\Omega$ , Max/100k Hz) |       | Ripple Current<br>(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 & Permissible Ripple Current  
 Dimension:  $\phi D \times L$ (mm)  
 Ripple Current: mA/rms at 100k Hz, 105°C

| V. DC<br><br>Item<br><br>μF | 63V (1J) |                               |       |                                   |         | 100V (2A) |                               |       |                                   |         |
|-----------------------------|----------|-------------------------------|-------|-----------------------------------|---------|-----------|-------------------------------|-------|-----------------------------------|---------|
|                             | φ D×L    | Impedance<br>(Ω, Max/100k Hz) |       | Ripple Current<br>(mA/rms, 105°C) |         | φ D×L     | Impedance<br>(Ω, 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        | 470 $\mu F$       | ±20%                  | 6.3V             | Bulk Package                 | Gas Type        | 10 $\phi$ ×12.5L   | Pb-free and PET sleeve    |
| <b><u>RXJ</u></b> | <b><u>471</u></b> | <b><u>M</u></b>       | <b><u>0J</u></b> | <b><u>BK</u></b>             | <b><u>-</u></b> | <b><u>1012</u></b> |                           |
| Series            | 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 10.



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

Наши преимущества:

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

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

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



#### Как с нами связаться

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