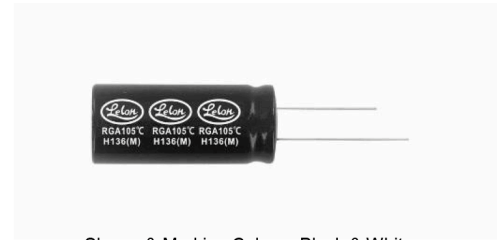


## RGA Series

### Features

- 105°C, 2,000 hours assured
- 105°C standard series for general purposes
- RoHS Compliance
- If there is any requirement on ESR, it's suggested to use low ESR series instead of RGA. Please consult us for any inquiry.

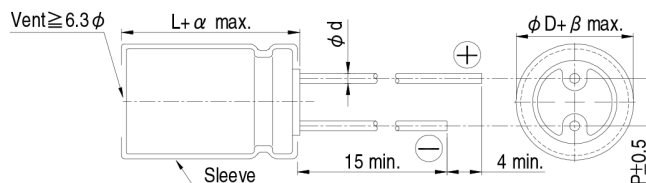


Sleeve & Marking Color: Black & White

### Specifications

|                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |                                              |      |      |      |        |      |              |                     |      |                     |      |      |               |     |    |    |    |    |    |    |     |     |     |     |     |     |     |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------------------------------------|------|------|------|--------|------|--------------|---------------------|------|---------------------|------|------|---------------|-----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Items                                                                             | Performance                                                                                                                                                                                                                                                                                                                                                                                                                        |          |                                              |      |      |      |        |      |              |                     |      |                     |      |      |               |     |    |    |    |    |    |    |     |     |     |     |     |     |     |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Category Temperature Range                                                        | 6.3~400V                                                                                                                                                                                                                                                                                                                                                                                                                           |          |                                              |      |      |      |        |      | 450V         |                     |      |                     |      |      |               |     |    |    |    |    |    |    |     |     |     |     |     |     |     |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                                                                                   | -40℃ ~ +105℃                                                                                                                                                                                                                                                                                                                                                                                                                       |          |                                              |      |      |      |        |      | -25℃ ~ +105℃ |                     |      |                     |      |      |               |     |    |    |    |    |    |    |     |     |     |     |     |     |     |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Capacitance Tolerance                                                             | ±20% (at 120Hz, 20℃)                                                                                                                                                                                                                                                                                                                                                                                                               |          |                                              |      |      |      |        |      |              |                     |      |                     |      |      |               |     |    |    |    |    |    |    |     |     |     |     |     |     |     |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Leakage Current (at 20℃)                                                          | Rated voltage                                                                                                                                                                                                                                                                                                                                                                                                                      |          | ≤ 100V                                       |      |      |      |        |      |              | > 100V              |      |                     |      |      |               |     |    |    |    |    |    |    |     |     |     |     |     |     |     |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                                                                                   | Time                                                                                                                                                                                                                                                                                                                                                                                                                               |          | after 2 minutes                              |      |      |      |        |      |              | after 5 minutes     |      |                     |      |      |               |     |    |    |    |    |    |    |     |     |     |     |     |     |     |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                                                                                   | Leakage Current                                                                                                                                                                                                                                                                                                                                                                                                                    |          | I = 0.01CV or 3 (μA)<br>whichever is greater |      |      |      |        |      |              | CV ≤ 1,000          |      | CV > 1,000          |      |      |               |     |    |    |    |    |    |    |     |     |     |     |     |     |     |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |                                              |      |      |      |        |      |              | I = 0.03CV + 15(μA) |      | I = 0.02CV + 25(μA) |      |      |               |     |    |    |    |    |    |    |     |     |     |     |     |     |     |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Where, C = rated capacitance in μF V = rated DC working voltage in V              |                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |                                              |      |      |      |        |      |              |                     |      |                     |      |      |               |     |    |    |    |    |    |    |     |     |     |     |     |     |     |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Tanδ (at 120 Hz, 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><td>160</td><td>200</td><td>250</td><td>350</td><td>400</td><td>450</td></tr><tr><td>Tanδ (max)</td><td>0.23</td><td>0.20</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><td>0.12</td><td>0.14</td><td>0.17</td><td>0.20</td><td>0.25</td><td>0.25</td></tr></table> |          |                                              |      |      |      |        |      |              |                     |      |                     |      |      | Rated Voltage | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | 160 | 200 | 250 | 350 | 400 | 450 | Tanδ (max) | 0.23 | 0.20 | 0.16 | 0.14 | 0.12 | 0.10 | 0.09 | 0.08 | 0.12 | 0.14 | 0.17 | 0.20 | 0.25 | 0.25 |
|                                                                                   | Rated Voltage                                                                                                                                                                                                                                                                                                                                                                                                                      | 6.3      | 10                                           | 16   | 25   | 35   | 50     | 63   | 100          | 160                 | 200  | 250                 | 350  | 400  | 450           |     |    |    |    |    |    |    |     |     |     |     |     |     |     |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Tanδ (max)                                                                        | 0.23                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.20     | 0.16                                         | 0.14 | 0.12 | 0.10 | 0.09   | 0.08 | 0.12         | 0.14                | 0.17 | 0.20                | 0.25 | 0.25 |               |     |    |    |    |    |    |    |     |     |     |     |     |     |     |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 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                 | 160  | 200                 | 250  | 350  | 400           | 450 |    |    |    |    |    |    |     |     |     |     |     |     |     |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                                                                                   | Impedance Ratio                                                                                                                                                                                                                                                                                                                                                                                                                    | Z(-25℃)  | φD < 16                                      | 4    | 3    | 3    | 2      | 2    | 2            | 2                   | 2    | 3                   | 6    | 8    | 12            | 14  | 16 |    |    |    |    |    |     |     |     |     |     |     |     |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                    | /Z(+20℃) | φD ≥ 16                                      | 6    | 4    | 4    | 3      | 3    | 3            | 3                   | 3    | 4                   | 8    | 10   | 16            | 18  | 16 |    |    |    |    |    |     |     |     |     |     |     |     |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                    | Z(-40℃)  | φD < 16                                      | 8    | 6    | 6    | 4      | 4    | 3            | 3                   | 3    | 4                   | 8    | 10   | 16            | 18  | -  |    |    |    |    |    |     |     |     |     |     |     |     |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| /Z(+20℃)                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                    | φD ≥ 16  | 12                                           | 10   | 8    | 8    | 8      | 8    | 6            | 6                   | 4    | 8                   | 10   | 16   | 18            | -   |    |    |    |    |    |    |     |     |     |     |     |     |     |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Endurance                                                                         | Test Time                                                                                                                                                                                                                                                                                                                                                                                                                          |          | 2,000 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 the rated voltage applied with rated ripple current for 2,000 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. The rated voltage shall be applied to the capacitors before the measurements for 160 ~ 450V (Refer to JIS C 5101-4 4.1).                                                                                                                                                |          |                                              |      |      |      |        |      |              |                     |      |                     |      |      |               |     |    |    |    |    |    |    |     |     |     |     |     |     |     |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Ripple Current and Frequency Multipliers                                          | Cap. (μF) \ Freq. (Hz)                                                                                                                                                                                                                                                                                                                                                                                                             |          | 60 (50)                                      | 120  | 500  | 1k   | 10k up |      |              |                     |      |                     |      |      |               |     |    |    |    |    |    |    |     |     |     |     |     |     |     |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                    |          | Under 100                                    | 0.70 | 1.00 | 1.30 | 1.40   | 1.50 |              |                     |      |                     |      |      |               |     |    |    |    |    |    |    |     |     |     |     |     |     |     |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                                                                                   | 100 < C ≤ 1,000                                                                                                                                                                                                                                                                                                                                                                                                                    |          | 0.75                                         | 1.00 | 1.20 | 1.30 | 1.35   |      |              |                     |      |                     |      |      |               |     |    |    |    |    |    |    |     |     |     |     |     |     |     |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                                                                                   | 1,000 up above                                                                                                                                                                                                                                                                                                                                                                                                                     |          | 0.80                                         | 1.00 | 1.10 | 1.12 | 1.15   |      |              |                     |      |                     |      |      |               |     |    |    |    |    |    |    |     |     |     |     |     |     |     |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

### Diagram of Dimensions

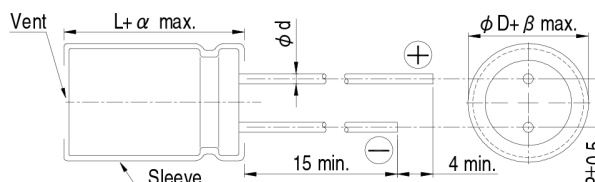


### Lead Spacing and Diameter

Unit: mm

| $\phi D$ | 5                           | 6.3 | 8   | 10  | 12.5 | 16  | 18  | 22  | 25   |
|----------|-----------------------------|-----|-----|-----|------|-----|-----|-----|------|
| P        | 2.0                         | 2.5 | 3.5 | 5.0 | 5.0  | 7.5 | 7.5 | 10  | 12.5 |
| $\phi d$ | 0.5                         |     | 0.6 |     |      | 0.8 |     | 1.0 |      |
| $\alpha$ | L<20: 1.5, L $\geq$ 20: 2.0 |     |     |     |      |     |     | 2.0 |      |
| $\beta$  | 0.5                         |     |     |     |      |     |     |     |      |

The case size of 12.5×16, 16×16, 16×20, 18×16, 18×20 and 18×25 are suitable for below diagram:



All product specifications in the catalog are subject to change without notice. (CAT. 2019E1)

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

Ripple Current: mA/rms at 120 Hz, 105°C

## Dimension and Permissible Ripple Current

| Cap.( $\mu$ F) | Rated Volt.<br>(V <sub>DC</sub> )<br>Contents | 6.3V (0J)         |       | 10V (1A)          |       | 16V (1C)          |       | 25V (1E)          |       | 35V (1V)          |       | 50V (1H)          |       | 63V (1J)          |       | 100V (2A)         |       |
|----------------|-----------------------------------------------|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------|
|                |                                               | $\phi D \times L$ | mA    | $\phi D \times L$ | mA    | $\phi D \times L$ | mA    | $\phi D \times L$ | mA    | $\phi D \times L$ | mA    | $\phi D \times L$ | mA    | $\phi D \times L$ | mA    | $\phi D \times L$ | mA    |
| 2.2            | 2R2                                           |                   |       |                   |       |                   |       |                   |       |                   |       | 5×11              | 20    |                   |       | 5×11              | 30    |
| 3.3            | 3R3                                           |                   |       |                   |       |                   |       |                   |       |                   |       | 5×11              | 30    |                   |       | 5×11              | 31    |
| 4.7            | 4R7                                           |                   |       |                   |       |                   |       |                   |       |                   |       | 5×11              | 33    |                   |       | 5×11              | 36    |
| 10             | 100                                           |                   |       |                   |       |                   |       |                   |       |                   |       | 5×11              | 50    |                   |       | 6.3×11            | 54    |
| 22             | 220                                           |                   |       |                   |       |                   |       |                   |       |                   |       | 5×11              | 78    | 6.3×11            | 86    | 6.3×11            | 93    |
| 33             | 330                                           |                   |       |                   |       |                   |       |                   |       | 5×11              | 75    | 5×11              | 90    | 6.3×11            | 100   | 8×11.5            | 130   |
| 47             | 470                                           |                   |       |                   |       |                   |       | 5×11              | 97    | 5×11              | 90    | 6.3×11            | 120   | 6.3×11            | 130   | 10×12.5           | 165   |
| 100            | 101                                           |                   |       |                   |       | 5×11              | 110   | 6.3×11            | 142   | 6.3×11            | 150   | 8×11.5            | 188   | 10×12.5           | 235   | 10×20             | 265   |
|                |                                               |                   |       |                   |       |                   |       |                   |       |                   |       |                   |       |                   |       | 12.5×16           | 290   |
| 220            | 221                                           | 5×11              | 140   | 6.3×11            | 175   | 6.3×11            | 190   | 8×11.5            | 236   | 8×11.5            | 270   | 10×12.5           | 300   | 10×16             | 335   | 12.5×25           | 440   |
|                |                                               |                   |       |                   |       |                   |       |                   |       |                   |       |                   |       |                   |       | 16×16             | 420   |
| 330            | 331                                           |                   |       | 6.3×11            | 200   | 8×11.5            | 270   | 8×11.5            | 310   | 10×12.5           | 350   | 10×16             | 410   | 10×20             | 510   | 16×25             | 620   |
|                |                                               |                   |       |                   |       |                   |       |                   |       |                   |       |                   |       | 12.5×16           | 460   |                   |       |
| 470            | 471                                           | 6.3×11            | 230   | 8×11.5            | 290   | 8×11.5            | 310   | 10×12.5           | 380   | 10×16             | 460   | 10×20             | 530   | 12.5×20           | 640   | 16×31.5           | 715   |
|                |                                               |                   |       |                   |       |                   |       |                   |       |                   |       | 12.5×16           | 425   | 16×16             | 665   | 18×25             | 745   |
| 1,000          | 102                                           | 8×11.5            | 380   | 10×12.5           | 460   | 10×16             | 560   | 10×20             | 680   | 12.5×20           | 810   | 12.5×25           | 950   | 16×25             | 930   | 18×40             | 1,275 |
|                |                                               |                   |       |                   |       |                   |       | 12.5×16           | 590   | 16×16             | 720   | 16×20             | 830   |                   |       |                   |       |
| 2,200          | 222                                           | 10×16             | 690   | 10×20             | 760   | 12.5×16           | 780   | 12.5×25           | 1,110 | 16×25             | 1,260 | 16×35.5           | 1,470 | 18×40             | 2,280 | 25×45             | 2,400 |
|                |                                               |                   |       |                   |       |                   |       |                   |       | 18×20             | 1,110 | 18×31.5           | 1,520 |                   |       |                   |       |
| 3,300          | 332                                           | 10×20             | 840   | 12.5×20           | 1,100 | 12.5×25           | 1,170 | 16×25             | 1,440 | 16×31.5           | 1,420 | 18×35.5           | 1,770 | 22×40             | 2,510 |                   |       |
|                |                                               | 12.5×16           | 850   | 16×16             | 940   | 16×16             | 950   | 18×20             | 1,220 | 18×25             | 1,570 |                   |       |                   |       |                   |       |
| 4,700          | 472                                           | 12.5×20           | 1,090 | 12.5×25           | 1,260 | 16×20             | 1,185 | 16×31.5           | 1,650 | 18×25             | 1,550 | 18×35.5           | 1,900 | 22×40             | 2,340 | 25×40             | 3,000 |
|                |                                               | 16×16             | 1,010 | 16×16             | 1,060 | 18×16             | 1,290 | 18×25             | 1,550 |                   |       |                   |       |                   |       |                   |       |
| 6,800          | 682                                           | 12.5×25           | 1,460 | 16×20             | 1,270 | 16×31.5           | 1,930 | 16×40             | 2,000 | 18×40             | 2,250 | 25×40             | 2,530 |                   |       |                   |       |
|                |                                               | 16×20             | 1,190 |                   |       | 18×20             | 1,585 | 18×35.5           | 2,160 |                   |       |                   |       |                   |       |                   |       |
| 10,000         | 103                                           | 16×20             | 1,340 | 16×31.5           | 2,220 | 16×35.5           | 2,210 | 22×40             | 2,720 |                   |       |                   |       |                   |       |                   |       |
|                |                                               |                   |       | 18×25             | 1,800 | 18×31.5           | 2,330 | 18×45             | 2,410 |                   |       |                   |       |                   |       |                   |       |
| 15,000         | 153                                           | 16×31.5           | 2,365 | 18×31.5           | 2,620 | 18×40             | 2,950 | 25×40             | 3,200 |                   |       |                   |       |                   |       |                   |       |
|                |                                               | 18×25             | 2,290 | 16×35.5           | 2,590 |                   |       |                   |       |                   |       |                   |       |                   |       |                   |       |
| 22,000         | 223                                           | 16×40             | 2,800 | 18×40             | 3,230 | 22×40             | 3,460 |                   |       |                   |       |                   |       |                   |       |                   |       |
|                |                                               | 18×35.5           | 2,930 |                   |       |                   |       |                   |       |                   |       |                   |       |                   |       |                   |       |
| 33,000         | 333                                           | 18×45             | 3,080 | 22×40             | 4,090 | 25×45             | 4,500 |                   |       |                   |       |                   |       |                   |       |                   |       |

| Cap.( $\mu$ F) | Rated Volt.<br>(V <sub>DC</sub> )<br>Contents | 160V (2C)         |       | 200V (2D)         |       | 250V (2E)         |       | 350V (2V)         |       | 400V (2G)         |     | 450V (2W)         |     |
|----------------|-----------------------------------------------|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-----|-------------------|-----|
|                |                                               | $\phi D \times L$ | mA    | $\phi D \times L$ | mA    | $\phi D \times L$ | mA    | $\phi D \times L$ | mA    | $\phi D \times L$ | mA  | $\phi D \times L$ | mA  |
| 1              | 010                                           |                   |       |                   |       |                   |       |                   |       | 6.3×11            | 21  | 8×11.5            | 27  |
| 2.2            | 2R2                                           |                   |       | 6.3×11            | 30    | 6.3×11            | 35    | 6.3×11            | 35    | 8×11.5            | 39  | 8×11.5            | 39  |
| 3.3            | 3R3                                           |                   |       | 6.3×11            | 39    | 6.3×11            | 40    | 8×11.5            | 43    | 8×11.5            | 45  | 8×11.5            | 45  |
| 4.7            | 4R7                                           |                   |       | 6.3×11            | 43    | 8×11.5            | 45    | 8×11.5            | 45    | 8×11.5            | 50  | 8×11.5            | 50  |
|                |                                               |                   |       |                   |       |                   |       | 10×12.5           | 55    | 10×12.5           | 55  | 10×12.5           | 55  |
| 10             | 100                                           | 8×11.5            | 65    | 8×11.5            | 65    | 10×12.5           | 92    | 10×16             | 95    | 10×16             | 95  | 10×20             | 105 |
| 22             | 220                                           | 10×12.5           | 110   | 10×16             | 140   | 10×16             | 140   | 12.5×20           | 220   | 12.5×20           | 160 | 12.5×20           | 160 |
| 33             | 330                                           | 10×16             | 150   | 10×20             | 170   | 12.5×16           | 175   | 12.5×25           | 215   | 16×20             | 225 | 16×20             | 225 |
|                |                                               |                   |       |                   |       |                   |       | 16×16             | 205   |                   |     | 18×16             | 220 |
| 47             | 470                                           | 10×20             | 195   | 12.5×16           | 215   | 12.5×20           | 230   | 16×20             | 255   | 16×25             | 295 | 16×25             | 280 |
|                |                                               |                   |       |                   |       | 16×16             | 245   |                   |       |                   |     | 18×20             | 285 |
| 68             | 680                                           | 12.5×20           | 275   | 12.5×20           | 265   | 16×20             | 320   | 18×25             | 360   | 18×25             | 360 | 16×35.5           | 400 |
|                |                                               |                   |       | 16×16             | 290   |                   |       | 16×31.5           | 370   | 16×31.5           | 375 | 18×31.5           | 420 |
| 100            | 101                                           | 12.5×25           | 355   | 16×20             | 365   | 16×25             | 425   | 18×31.5           | 460   | 18×35.5           | 540 | 18×40             | 560 |
|                |                                               |                   |       | 18×16             | 360   | 18×20             | 415   | 16×35.5           | 430   |                   |     |                   |     |
| 150            | 151                                           | 16×25             | 470   | 18×20             | 510   | 16×31.5           | 550   | 18×40             | 600   | 22×40             | 730 | 22×40             | 770 |
|                |                                               |                   |       |                   |       | 18×25             | 535   |                   |       |                   |     |                   |     |
| 220            | 221                                           | 16×31.5           | 660   | 18×31.5           | 750   | 18×35.5           | 760   | 25×40             | 865   | 22×45             | 930 |                   |     |
|                |                                               |                   |       |                   |       |                   |       | 22×45             | 850   |                   |     |                   |     |
| 330            | 331                                           | 18×35.5           | 820   | 18×40             | 965   | 22×40             | 1,140 | 25×45             | 1,070 |                   |     |                   |     |
| 470            | 471                                           | 22×40             | 1,130 | 22×40             | 1,130 | 25×40             | 1,325 |                   |       |                   |     |                   |     |

## Part Numbering System

|             |             |                       |               |                              |             |                 |                           |
|-------------|-------------|-----------------------|---------------|------------------------------|-------------|-----------------|---------------------------|
| RGA Series  | 470 $\mu$ F | ±20%                  | 6.3V          | Bulk Package                 | Gas Type    | 6.3 $\phi$ ×11L | Pb-free and PET sleeve    |
| <b>RGA</b>  | <b>471</b>  | <b>M</b>              | <b>0J</b>     | <b>BK</b>                    | <b>-</b>    | <b>0611</b>     | <b>S</b>                  |
| Series Name | Capacitance | Capacitance Tolerance | Rated Voltage | Lead Configuration & Package | Rubber Type | Case Size       | Lead Wire and Sleeve type |
|             |             |                       |               |                              |             |                 | Supplement Code           |

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