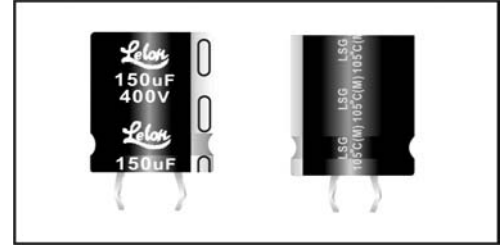


## Large Type

## Features

- Has a snap-in terminal which can solder to PCB directly and need not fixture to save processing time
- Suitable for electronic equipment with medium-high voltage circuits
- Printed circuit board terminal snap-in type and lug terminal type available.



## SPECIFICATIONS

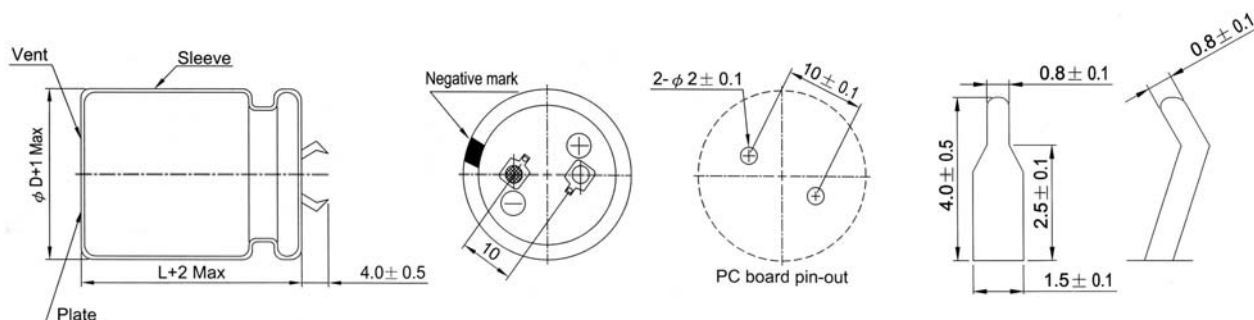
| Items                                       | Performance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                   |          |                    |                              |                    |                                   |                 |                        |      |      |      |      |           |             |                 |                 |      |      |           |      |       |       |       |      |      |      |   |   |                 |    |    |   |   |   |   |   |   |    |    |    |    |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------|--------------------|------------------------------|--------------------|-----------------------------------|-----------------|------------------------|------|------|------|------|-----------|-------------|-----------------|-----------------|------|------|-----------|------|-------|-------|-------|------|------|------|---|---|-----------------|----|----|---|---|---|---|---|---|----|----|----|----|
| Operating Temperature Range                 | -40℃ ~ +105℃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                   |          |                    |                              |                    |                                   |                 |                        |      |      |      |      |           |             |                 |                 |      |      |           |      |       |       |       |      |      |      |   |   |                 |    |    |   |   |   |   |   |   |    |    |    |    |
| Capacitance Tolerance                       | ±20%<br>(at 120Hz, 20℃)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                   |          |                    |                              |                    |                                   |                 |                        |      |      |      |      |           |             |                 |                 |      |      |           |      |       |       |       |      |      |      |   |   |                 |    |    |   |   |   |   |   |   |    |    |    |    |
| Leakage Current (at 20℃)                    | I = 0.02CV or 1.5 mA whichever is smaller (after 5 minutes)<br>Where, C= rated capacitance in μF. V = rated DC working voltage in V.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                   |          |                    |                              |                    |                                   |                 |                        |      |      |      |      |           |             |                 |                 |      |      |           |      |       |       |       |      |      |      |   |   |                 |    |    |   |   |   |   |   |   |    |    |    |    |
| Dissipation Factor<br>(Tan δ at 120Hz, 20℃) | <table><tr><td>Rated Voltage</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>Tan δ (max)</td><td>0.40</td><td>0.30</td><td>0.25</td><td>0.20</td><td>0.15</td><td>0.15</td><td>0.10*</td><td>0.10*</td><td>0.10*</td><td>0.15</td><td>0.15</td><td>0.15</td></tr></table><br>*: 0.15 for φ D = 35 mm                                                                                                                                                                                                                               | Rated Voltage                     | 16       | 25                 | 35                           | 50                 | 63                                | 100             | 160                    | 200  | 250  | 350  | 400  | 450       | Tan δ (max) | 0.40            | 0.30            | 0.25 | 0.20 | 0.15      | 0.15 | 0.10* | 0.10* | 0.10* | 0.15 | 0.15 | 0.15 |   |   |                 |    |    |   |   |   |   |   |   |    |    |    |    |
| Rated Voltage                               | 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 25                                | 35       | 50                 | 63                           | 100                | 160                               | 200             | 250                    | 350  | 400  | 450  |      |           |             |                 |                 |      |      |           |      |       |       |       |      |      |      |   |   |                 |    |    |   |   |   |   |   |   |    |    |    |    |
| Tan δ (max)                                 | 0.40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.30                              | 0.25     | 0.20               | 0.15                         | 0.15               | 0.10*                             | 0.10*           | 0.10*                  | 0.15 | 0.15 | 0.15 |      |           |             |                 |                 |      |      |           |      |       |       |       |      |      |      |   |   |                 |    |    |   |   |   |   |   |   |    |    |    |    |
| Low Temperature Characteristics (at 120Hz)  | <p>Impedance ratio shall not exceed the values given in the table below.</p> <table><tr><td colspan="2">Rated Voltage</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 rowspan="2">Impedance Ratio</td><td>Z(-25℃)/Z(+20℃)</td><td>4</td><td>3</td><td>3</td><td>2</td><td>2</td><td>2</td><td>4</td><td>4</td><td>4</td><td>4</td><td>8</td><td>8</td></tr><tr><td>Z(-40℃)/Z(+20℃)</td><td>15</td><td>10</td><td>8</td><td>6</td><td>6</td><td>5</td><td>4</td><td>8</td><td>10</td><td>16</td><td>18</td><td>20</td></tr></table> | Rated Voltage                     |          | 16                 | 25                           | 35                 | 50                                | 63              | 100                    | 160  | 200  | 250  | 350  | 400       | 450         | Impedance Ratio | Z(-25℃)/Z(+20℃) | 4    | 3    | 3         | 2    | 2     | 2     | 4     | 4    | 4    | 4    | 8 | 8 | Z(-40℃)/Z(+20℃) | 15 | 10 | 8 | 6 | 6 | 5 | 4 | 8 | 10 | 16 | 18 | 20 |
| Rated Voltage                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 16                                | 25       | 35                 | 50                           | 63                 | 100                               | 160             | 200                    | 250  | 350  | 400  | 450  |           |             |                 |                 |      |      |           |      |       |       |       |      |      |      |   |   |                 |    |    |   |   |   |   |   |   |    |    |    |    |
| Impedance Ratio                             | Z(-25℃)/Z(+20℃)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 4                                 | 3        | 3                  | 2                            | 2                  | 2                                 | 4               | 4                      | 4    | 4    | 8    | 8    |           |             |                 |                 |      |      |           |      |       |       |       |      |      |      |   |   |                 |    |    |   |   |   |   |   |   |    |    |    |    |
|                                             | Z(-40℃)/Z(+20℃)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 15                                | 10       | 8                  | 6                            | 6                  | 5                                 | 4               | 8                      | 10   | 16   | 18   | 20   |           |             |                 |                 |      |      |           |      |       |       |       |      |      |      |   |   |                 |    |    |   |   |   |   |   |   |    |    |    |    |
| Load Life Test                              | <table><tr><td>Test Time</td><td>2000 Hrs</td></tr><tr><td>Capacitance Change</td><td>Within ±20% of initial value</td></tr><tr><td>Dissipation Factor</td><td>Less than 200% of specified value</td></tr><tr><td>Leakage Current</td><td>Within specified value</td></tr></table> <p>* The above specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage applied with rated ripple current for 2000 hrs at 105℃.</p>                                                                                                                                                                                | Test Time                         | 2000 Hrs | Capacitance Change | Within ±20% of initial value | Dissipation Factor | Less than 200% of specified value | Leakage Current | Within specified value |      |      |      |      |           |             |                 |                 |      |      |           |      |       |       |       |      |      |      |   |   |                 |    |    |   |   |   |   |   |   |    |    |    |    |
| Test Time                                   | 2000 Hrs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                   |          |                    |                              |                    |                                   |                 |                        |      |      |      |      |           |             |                 |                 |      |      |           |      |       |       |       |      |      |      |   |   |                 |    |    |   |   |   |   |   |   |    |    |    |    |
| Capacitance Change                          | Within ±20% of initial value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                   |          |                    |                              |                    |                                   |                 |                        |      |      |      |      |           |             |                 |                 |      |      |           |      |       |       |       |      |      |      |   |   |                 |    |    |   |   |   |   |   |   |    |    |    |    |
| Dissipation Factor                          | Less than 200% of specified value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                   |          |                    |                              |                    |                                   |                 |                        |      |      |      |      |           |             |                 |                 |      |      |           |      |       |       |       |      |      |      |   |   |                 |    |    |   |   |   |   |   |   |    |    |    |    |
| Leakage Current                             | Within specified value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                   |          |                    |                              |                    |                                   |                 |                        |      |      |      |      |           |             |                 |                 |      |      |           |      |       |       |       |      |      |      |   |   |                 |    |    |   |   |   |   |   |   |    |    |    |    |
| Shelf Life Test                             | <table><tr><td>Test Time</td><td>1000 Hrs</td></tr><tr><td>Capacitance Change</td><td>Within ±20% of initial value</td></tr><tr><td>Dissipation Factor</td><td>Less than 150% of specified value</td></tr><tr><td>Leakage Current</td><td>Within specified value</td></tr></table> <p>* The above specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 1000 hrs at 105℃ without voltage applied.</p>                                                                                                                                                                                              | Test Time                         | 1000 Hrs | Capacitance Change | Within ±20% of initial value | Dissipation Factor | Less than 150% of specified value | Leakage Current | Within specified value |      |      |      |      |           |             |                 |                 |      |      |           |      |       |       |       |      |      |      |   |   |                 |    |    |   |   |   |   |   |   |    |    |    |    |
| Test Time                                   | 1000 Hrs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                   |          |                    |                              |                    |                                   |                 |                        |      |      |      |      |           |             |                 |                 |      |      |           |      |       |       |       |      |      |      |   |   |                 |    |    |   |   |   |   |   |   |    |    |    |    |
| Capacitance Change                          | Within ±20% of initial value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                   |          |                    |                              |                    |                                   |                 |                        |      |      |      |      |           |             |                 |                 |      |      |           |      |       |       |       |      |      |      |   |   |                 |    |    |   |   |   |   |   |   |    |    |    |    |
| Dissipation Factor                          | Less than 150% of specified value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                   |          |                    |                              |                    |                                   |                 |                        |      |      |      |      |           |             |                 |                 |      |      |           |      |       |       |       |      |      |      |   |   |                 |    |    |   |   |   |   |   |   |    |    |    |    |
| Leakage Current                             | Within specified value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                   |          |                    |                              |                    |                                   |                 |                        |      |      |      |      |           |             |                 |                 |      |      |           |      |       |       |       |      |      |      |   |   |                 |    |    |   |   |   |   |   |   |    |    |    |    |
| Ripple Current & Frequency Multipliers      | <table><tr><td><div>Freq.(Hz)<br/>W. V.(V)</div></td><td>60</td><td>120</td><td>500</td><td>1K</td><td>10K up</td></tr><tr><td>Under 100</td><td>0.92</td><td>1.00</td><td>1.13</td><td>1.19</td><td>1.20</td></tr><tr><td>160 ~ 250</td><td>0.81</td><td>1.00</td><td>1.32</td><td>1.45</td><td>1.50</td></tr><tr><td>350 to up</td><td>0.77</td><td>1.00</td><td>1.30</td><td>1.41</td><td>1.43</td></tr></table>                                                                                                                                                                                                                            | <div>Freq.(Hz)<br/>W. V.(V)</div> | 60       | 120                | 500                          | 1K                 | 10K up                            | Under 100       | 0.92                   | 1.00 | 1.13 | 1.19 | 1.20 | 160 ~ 250 | 0.81        | 1.00            | 1.32            | 1.45 | 1.50 | 350 to up | 0.77 | 1.00  | 1.30  | 1.41  | 1.43 |      |      |   |   |                 |    |    |   |   |   |   |   |   |    |    |    |    |
| <div>Freq.(Hz)<br/>W. V.(V)</div>           | 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 120                               | 500      | 1K                 | 10K up                       |                    |                                   |                 |                        |      |      |      |      |           |             |                 |                 |      |      |           |      |       |       |       |      |      |      |   |   |                 |    |    |   |   |   |   |   |   |    |    |    |    |
| Under 100                                   | 0.92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1.00                              | 1.13     | 1.19               | 1.20                         |                    |                                   |                 |                        |      |      |      |      |           |             |                 |                 |      |      |           |      |       |       |       |      |      |      |   |   |                 |    |    |   |   |   |   |   |   |    |    |    |    |
| 160 ~ 250                                   | 0.81                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1.00                              | 1.32     | 1.45               | 1.50                         |                    |                                   |                 |                        |      |      |      |      |           |             |                 |                 |      |      |           |      |       |       |       |      |      |      |   |   |                 |    |    |   |   |   |   |   |   |    |    |    |    |
| 350 to up                                   | 0.77                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1.00                              | 1.30     | 1.41               | 1.43                         |                    |                                   |                 |                        |      |      |      |      |           |             |                 |                 |      |      |           |      |       |       |       |      |      |      |   |   |                 |    |    |   |   |   |   |   |   |    |    |    |    |
| Other Standards                             | JIS C 5101-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                   |          |                    |                              |                    |                                   |                 |                        |      |      |      |      |           |             |                 |                 |      |      |           |      |       |       |       |      |      |      |   |   |                 |    |    |   |   |   |   |   |   |    |    |    |    |

## Large Type

### ■ Type I

Snap-in terminal type (diagram of dimensions)

Unit: mm



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

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

### DIMENSION & PERMISSIBLE RIPPLE CURRENT

| $\frac{V.DC}{\mu F \quad \phi D}$ |     | 16V<br>(1C)   |               |               |               | 25V<br>(1E)   |               |               |               | 35V<br>(1V)   |               |               |               |
|-----------------------------------|-----|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
|                                   |     | 22            | 25            | 30            | 35            | 22            | 25            | 30            | 35            | 22            | 25            | 30            | 35            |
| 4700                              | 472 |               |               |               |               | 22×25<br>1.50 |               |               |               |               | 25×25<br>1.80 |               |               |
| 5600                              | 562 |               |               |               |               | 22×25<br>1.72 |               |               |               | 22×35<br>1.95 | 25×30<br>1.96 | 30×25<br>1.99 |               |
| 6800                              | 682 | 22×25<br>1.57 |               |               |               | 22×30<br>1.86 | 25×25<br>1.87 |               |               | 22×40<br>2.20 | 25×35<br>2.23 |               |               |
| 8200                              | 822 | 22×25<br>1.94 |               |               |               | 22×35<br>2.11 | 25×30<br>2.12 | 30×25<br>2.15 |               | 22×50<br>2.55 | 25×40<br>2.53 | 30×30<br>2.75 | 35×25<br>2.75 |
| 10000                             | 103 | 22×30<br>1.97 | 25×30<br>2.12 |               |               | 22×40<br>2.39 | 25×35<br>2.42 |               |               |               | 25×45<br>2.87 | 30×35<br>2.90 |               |
| 12000                             | 123 | 22×35<br>2.22 | 25×30<br>2.24 | 30×25<br>2.45 |               | 22×45<br>2.69 | 25×40<br>2.74 | 30×30<br>2.70 | 35×25<br>2.74 |               | 25×50<br>3.24 | 30×40<br>3.23 | 35×30<br>2.99 |
| 15000                             | 153 | 22×40<br>2.55 | 25×35<br>2.58 |               |               |               | 25×45<br>3.15 | 30×35<br>3.13 | 35×30<br>3.27 |               |               | 30×45<br>3.72 | 35×35<br>3.67 |
| 18000                             | 183 | 22×45<br>2.87 | 25×40<br>2.92 | 30×30<br>2.88 | 35×25<br>2.92 |               | 25×50<br>3.54 | 30×40<br>3.54 |               |               |               |               | 35×40<br>4.37 |
| 22000                             | 223 |               | 25×45<br>3.32 | 30×35<br>2.29 |               |               |               | 30×45<br>4.04 | 35×35<br>3.64 |               |               |               | 35×50<br>4.92 |

| $\frac{V.DC}{\mu F \quad \phi D}$ |     | 50V<br>(1H)   |               |               |               | 63V<br>(1J)   |               |               |               | 100V<br>(2A)                   |               |               |               |
|-----------------------------------|-----|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------------------------|---------------|---------------|---------------|
|                                   |     | 22            | 25            | 30            | 35            | 22            | 25            | 30            | 35            | 22                             | 25            | 30            | 35            |
| 1200                              | 122 |               |               |               |               | 22×25<br>1.19 |               |               |               | 22×40<br>1.69                  | 25×35<br>1.71 | 30×25<br>1.68 |               |
| 1500                              | 152 |               |               |               |               |               |               |               |               | 22×45<br>1.94                  | 25×40<br>1.98 | 30×30<br>1.95 | 35×25<br>1.98 |
| 1800                              | 182 | 22×25<br>1.33 |               |               |               | 22×30<br>1.51 | 25×25<br>1.52 |               |               |                                | 25×45<br>2.23 | 30×35<br>2.50 |               |
| 2200                              | 222 | 22×25<br>1.48 |               |               |               | 22×35<br>1.73 | 25×30<br>1.74 |               |               |                                | 25×50<br>2.53 | 30×40<br>2.70 | 35×30<br>2.50 |
| 2700                              | 272 | 22×30<br>1.69 | 25×25<br>1.70 |               |               | 22×40<br>1.97 | 25×35<br>1.99 | 30×25<br>1.76 |               |                                |               | 30×45<br>2.88 | 35×35<br>2.86 |
| 3300                              | 332 | 22×35<br>1.93 | 25×35<br>1.85 |               |               | 22×50<br>2.29 | 25×40<br>2.27 | 30×30<br>2.24 | 35×25<br>2.06 |                                |               | 30×50<br>3.28 | 35×40<br>3.27 |
| 3900                              | 392 | 22×40<br>2.16 | 25×35<br>2.18 | 30×25<br>1.95 |               |               | 25×45<br>2.54 | 30×35<br>2.55 |               |                                |               |               | 35×45<br>3.67 |
| 4700                              | 472 | 22×45<br>2.43 |               | 30×30<br>2.25 | 35×25<br>2.48 |               | 25×50<br>2.86 | 30×40<br>2.86 | 35×30<br>2.79 |                                |               |               | 35×50<br>3.67 |
| 5600                              | 562 | 22×50<br>2.75 | 25×40<br>2.70 | 30×35<br>2.76 |               |               |               | 30×45<br>3.22 | 35×35<br>3.19 | Case size $\phi \times L$ (mm) |               |               | 35×50<br>3.80 |
| 6800                              | 682 |               | 25×50<br>3.30 | 30×40<br>3.30 | 35×30<br>3.25 |               |               | 30×50<br>3.65 | 35×40<br>3.64 | Ripple current A/rms           |               |               |               |
| 8200                              | 822 |               |               | 30×45<br>3.60 | 35×35<br>3.55 |               |               |               | 35×45<br>3.90 |                                |               |               |               |
| 10000                             | 103 |               |               | 30×50<br>4.04 | 35×40<br>4.03 |               |               |               | 35×50<br>4.40 |                                |               |               |               |
| 12000                             | 123 |               |               |               | 35×45<br>4.55 |               |               |               |               |                                |               |               |               |

## Large Type

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

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

## DIMENSION &amp; PERMISSIBLE RIPPLE CURRENT

| <div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">V.DC</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"><math>\mu F</math></div> </div> |     | 160V<br>(2C)  |               |               |               | 200V<br>(2D)  |               |               |               | 250V<br>(2E)                                             |               |               |               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------------------------------------------------|---------------|---------------|---------------|
|                                                                                                                                                                                                                                    |     | 22            | 25            | 30            | 35            | 22            | 25            | 30            | 35            | 22                                                       | 25            | 30            | 35            |
| 180                                                                                                                                                                                                                                | 181 |               |               |               |               | 22×25<br>0.80 |               |               |               | 22×30<br>0.85                                            | 25×25<br>0.85 |               |               |
|                                                                                                                                                                                                                                    |     |               |               |               |               |               |               |               |               | 22×25<br>0.78                                            |               |               |               |
| 220                                                                                                                                                                                                                                | 221 |               |               |               |               | 22×25<br>0.89 |               |               |               | 22×35<br>0.90                                            | 25×30<br>1.0  | 30×25<br>1.00 |               |
| 270                                                                                                                                                                                                                                | 271 | 22×25<br>0.86 |               |               |               | 22×30<br>1.0  |               |               |               | 22×40<br>1.14                                            |               |               |               |
|                                                                                                                                                                                                                                    |     |               |               |               |               | 22×25<br>0.87 | 25×25<br>1.00 |               |               | 22×35<br>1.00                                            |               |               |               |
| 330                                                                                                                                                                                                                                | 331 | 22×30<br>1.20 |               |               |               | 22×35<br>1.20 | 25×30<br>1.21 |               |               | 22×45<br>1.26                                            | 25×35<br>1.20 | 30×30<br>1.13 |               |
|                                                                                                                                                                                                                                    |     | 22×25<br>1.10 |               |               |               | 22×30<br>1.13 | 25×25<br>1.13 |               |               | 22×40<br>1.10                                            | 25×30<br>1.13 |               |               |
| 390                                                                                                                                                                                                                                | 391 | 22×35<br>1.30 |               |               |               | 22×40<br>1.31 |               |               |               | 22×50<br>1.49                                            | 25×40<br>1.49 |               |               |
|                                                                                                                                                                                                                                    |     | 22×30<br>1.22 | 25×25<br>1.15 |               |               | 22×35<br>1.25 |               | 30×25<br>1.20 |               | 22×45<br>1.25                                            | 25×35<br>1.27 |               |               |
| 470                                                                                                                                                                                                                                | 471 | 22×40<br>1.40 | 25×30<br>1.41 |               |               | 22×45<br>1.40 | 25×35<br>1.41 | 30×25<br>1.50 |               | 22×50<br>1.57                                            | 25×45<br>1.57 | 30×35<br>1.57 | 35×30<br>1.30 |
|                                                                                                                                                                                                                                    |     | 22×35<br>1.35 | 25×25<br>1.33 |               |               | 22×40<br>1.32 | 25×30<br>1.32 |               |               |                                                          | 25×40<br>1.38 | 30×30<br>1.37 |               |
| 560                                                                                                                                                                                                                                | 561 | 22×40<br>1.50 | 25×35<br>1.51 |               |               | 22×50<br>1.56 | 25×40<br>1.53 | 30×30<br>1.52 |               |                                                          | 25×45<br>1.79 | 30×40<br>1.79 | 35×30<br>1.79 |
|                                                                                                                                                                                                                                    |     |               | 25×30<br>1.45 | 30×25<br>1.40 |               | 22×45<br>1.53 | 25×35<br>1.50 |               |               |                                                          |               | 30×35<br>1.58 |               |
| 680                                                                                                                                                                                                                                | 681 | 22×50<br>1.71 | 25×40<br>1.70 | 30×30<br>1.72 |               | 22×50<br>1.74 | 25×45<br>1.74 | 30×35<br>1.73 | 35×30<br>1.73 |                                                          | 25×50<br>1.84 | 30×40<br>2.00 |               |
|                                                                                                                                                                                                                                    |     | 22×45<br>1.65 | 25×35<br>1.65 | 30×25<br>1.65 |               |               | 25×40<br>1.70 |               | 35×25<br>1.72 |                                                          |               |               | 35×35<br>1.58 |
| 820                                                                                                                                                                                                                                | 821 | 22×50<br>1.93 | 25×45<br>2.01 | 30×35<br>2.00 | 35×30<br>2.00 |               | 25×50<br>2.04 | 30×40<br>1.93 | 35×35<br>1.93 |                                                          |               | 30×50<br>2.16 | 35×40<br>1.81 |
|                                                                                                                                                                                                                                    |     |               | 25×40<br>1.85 | 30×30<br>1.76 | 35×25<br>1.91 |               |               |               |               |                                                          |               | 30×45<br>1.85 |               |
| 1000                                                                                                                                                                                                                               | 102 |               | 25×45<br>2.20 | 30×40<br>2.22 | 35×35<br>2.20 |               |               | 30×50<br>2.30 | 35×40<br>2.30 |                                                          |               |               | 35×45<br>2.00 |
|                                                                                                                                                                                                                                    |     |               |               | 30×35<br>2.02 | 35×30<br>2.44 |               |               | 30×45<br>2.20 | 35×35<br>2.20 |                                                          |               |               |               |
| 1200                                                                                                                                                                                                                               | 122 |               | 25×50<br>2.45 | 30×45<br>2.44 | 35×35<br>2.50 |               |               | 30×50<br>2.60 | 35×40<br>2.65 | Case size $\phi D \times L(\text{mm})$ $\longrightarrow$ |               |               | 35×45<br>3.41 |
|                                                                                                                                                                                                                                    |     |               |               | 30×40<br>2.35 |               |               |               |               |               | Ripple current A/rms $\longrightarrow$                   |               |               |               |
| 1500                                                                                                                                                                                                                               | 152 |               |               | 30×45<br>2.82 | 35×40<br>2.70 |               |               |               | 35×50<br>2.80 |                                                          |               |               |               |
| 1800                                                                                                                                                                                                                               | 182 |               |               | 30×50<br>3.31 | 35×50<br>3.10 |               |               |               | 35×50<br>3.47 |                                                          |               |               |               |



# Aluminum Electrolytic Capacitors

LSG

## Large Type

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

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

### DIMENSION & PERMISSIBLE RIPPLE CURRENT

| V.DC<br>$\mu F$<br>$\phi D$ |     | 350V<br>(2V)  |               |               |               | 400V<br>(2G)  |               |               |               | 450V<br>(2W)                                                 |               |               |               |
|-----------------------------|-----|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------------------------------------------------------|---------------|---------------|---------------|
|                             |     | 22            | 25            | 30            | 35            | 22            | 25            | 30            | 35            | 22                                                           | 25            | 30            | 35            |
| 56                          | 560 |               |               |               |               |               |               |               |               | 22×25<br>0.40                                                |               |               |               |
| 68                          | 680 | 22×25<br>0.51 |               |               |               | 22×30<br>0.51 |               |               |               | 22×30<br>0.50                                                | 25×25<br>0.50 |               |               |
|                             |     |               |               |               |               | 22×25<br>0.50 |               |               |               |                                                              |               |               |               |
| 82                          | 820 | 22×25<br>0.56 |               |               |               | 22×30<br>0.58 | 25×25<br>0.64 |               |               | 22×35<br>0.56                                                |               |               |               |
| 100                         | 101 | 22×30<br>0.69 | 25×25<br>0.69 |               |               | 22×35<br>0.61 | 25×30<br>0.64 |               |               | 22×40<br>0.64                                                | 25×30<br>0.57 | 30×25<br>0.64 |               |
| 120                         | 121 | 22×35<br>0.75 |               |               |               | 22×40<br>0.72 | 25×35<br>0.72 | 30×25<br>0.76 |               | 22×45<br>0.72                                                | 25×35<br>0.71 |               |               |
|                             |     |               |               |               |               | 22×35<br>0.67 | 25×30<br>0.69 |               |               |                                                              |               |               |               |
| 150                         | 151 | 22×40<br>0.82 | 25×30<br>0.83 | 30×25<br>0.83 |               | 22×50<br>0.82 | 25×40<br>0.84 | 30×30<br>0.76 | 35×30<br>0.76 | 22×50<br>0.79                                                | 25×40<br>0.75 | 30×30<br>0.74 | 35×25<br>0.75 |
|                             |     |               |               |               |               | 22×40<br>0.77 | 25×35<br>0.78 |               |               |                                                              |               |               |               |
| 180                         | 181 | 22×45<br>0.92 | 25×35<br>0.92 | 30×30<br>0.92 |               | 22×50<br>0.95 | 25×45<br>0.94 | 30×35<br>0.92 | 35×30<br>0.94 |                                                              | 25×45<br>0.84 | 30×35<br>0.87 |               |
|                             |     |               |               |               |               |               | 25×40<br>0.83 | 30×30<br>0.82 | 35×25<br>0.90 |                                                              |               |               |               |
| 220                         | 221 | 22×50<br>1.05 | 25×40<br>1.04 | 30×30<br>1.02 | 35×25<br>1.04 |               | 25×50<br>1.07 | 30×40<br>1.06 | 35×30<br>1.08 |                                                              | 25×50<br>0.98 | 30×40<br>0.98 | 35×30<br>1.00 |
|                             |     |               |               |               |               |               | 25×45<br>0.93 | 30×35<br>0.91 |               |                                                              |               |               |               |
| 270                         | 271 |               | 25×50<br>1.18 | 30×35<br>1.17 | 35×30<br>1.20 |               | 25×50<br>1.21 | 30×45<br>1.21 | 35×35<br>1.12 |                                                              |               | 30×45<br>1.15 | 35×35<br>1.17 |
|                             |     |               | 25×45<br>1.00 |               |               |               |               | 30×40<br>1.10 |               |                                                              |               |               |               |
| 330                         | 331 |               |               | 30×45<br>1.34 |               |               |               | 30×45<br>1.39 | 35×40<br>1.25 |                                                              |               | 30×50<br>1.38 | 35×45<br>1.70 |
|                             |     |               |               | 30×40<br>1.15 | 35×35<br>1.15 |               |               |               |               |                                                              |               |               |               |
| 390                         | 391 |               |               | 30×50<br>1.51 | 35×40<br>1.47 |               |               | 30×50<br>1.55 | 35×45<br>1.55 | Case size $\phi \times L(\text{mm})$<br>Ripple current A/rms |               | 35×50<br>1.94 |               |
|                             |     |               |               | 30×45<br>1.25 | 35×35<br>1.25 |               |               |               |               |                                                              |               |               |               |
| 470                         | 471 |               |               |               | 35×45<br>1.69 |               |               |               | 35×50<br>1.72 |                                                              |               |               | 35×50<br>2.13 |
|                             |     |               |               |               | 35×40<br>1.34 |               |               |               |               |                                                              |               |               |               |
| 560                         | 561 |               |               |               | 35×50<br>1.90 |               |               |               |               |                                                              |               |               |               |
|                             |     |               |               |               | 35×45<br>1.51 |               |               |               |               |                                                              |               |               |               |

※ Special design is available upon request.

### Part Numbering System

