



## LSG Series

### Features

- Snap-in terminal type
- 105°C, 2,000 hours assured
- RoHS Compliance



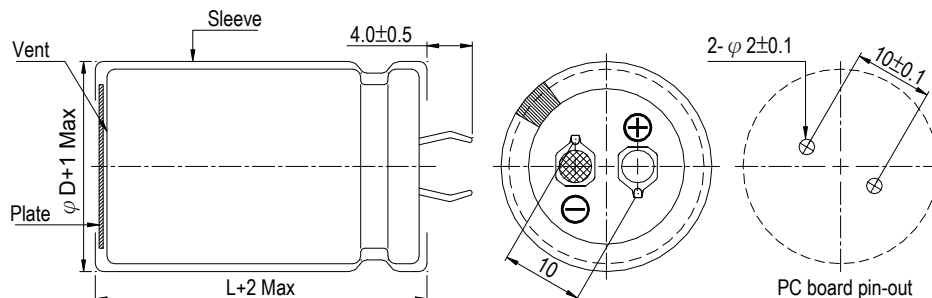
Sleeve & Marking Color: Brown & White

### Specifications

| Items                                                                                                                                                                                                                                                                | Performance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |      |         |           |      |      |        |              |      |      |      |      |      |      |               |           |    |         |           |     |    |        |          |     |              |           |     |      |      |                    |                              |      |           |      |      |      |      |      |      |           |      |      |      |      |      |                                   |              |           |  |      |      |      |      |      |  |  |  |  |  |                 |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------|---------|-----------|------|------|--------|--------------|------|------|------|------|------|------|---------------|-----------|----|---------|-----------|-----|----|--------|----------|-----|--------------|-----------|-----|------|------|--------------------|------------------------------|------|-----------|------|------|------|------|------|------|-----------|------|------|------|------|------|-----------------------------------|--------------|-----------|--|------|------|------|------|------|--|--|--|--|--|-----------------|------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Category Temperature Range                                                                                                                                                                                                                                           | 16 ~ 100V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                   |      |         |           |      |      |        | 160 ~ 500V   |      |      |      |      |      |      |               |           |    |         |           |     |    |        |          |     |              |           |     |      |      |                    |                              |      |           |      |      |      |      |      |      |           |      |      |      |      |      |                                   |              |           |  |      |      |      |      |      |  |  |  |  |  |                 |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                      | -40℃ ~ +105℃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                   |      |         |           |      |      |        | -25℃ ~ +105℃ |      |      |      |      |      |      |               |           |    |         |           |     |    |        |          |     |              |           |     |      |      |                    |                              |      |           |      |      |      |      |      |      |           |      |      |      |      |      |                                   |              |           |  |      |      |      |      |      |  |  |  |  |  |                 |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Capacitance Tolerance                                                                                                                                                                                                                                                | ±20% (at 120Hz, 20℃)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                   |      |         |           |      |      |        |              |      |      |      |      |      |      |               |           |    |         |           |     |    |        |          |     |              |           |     |      |      |                    |                              |      |           |      |      |      |      |      |      |           |      |      |      |      |      |                                   |              |           |  |      |      |      |      |      |  |  |  |  |  |                 |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Leakage Current (at 20℃)                                                                                                                                                                                                                                             | $I = 3\sqrt{CV}$ or 1.5 mA whichever is smaller (after 5 minutes)<br>Where, C = rated capacitance in μF    V = rated DC working voltage in V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                   |      |         |           |      |      |        |              |      |      |      |      |      |      |               |           |    |         |           |     |    |        |          |     |              |           |     |      |      |                    |                              |      |           |      |      |      |      |      |      |           |      |      |      |      |      |                                   |              |           |  |      |      |      |      |      |  |  |  |  |  |                 |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Tanδ (at 120Hz, 20℃)                                                                                                                                                                                                                                                 | <table><tr><td>Rated Voltage</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>80</td><td>100</td><td>160</td><td>200</td><td>250</td><td>350</td><td>400</td><td>420</td><td>450</td><td>500</td></tr><tr><td>Tanδ (max)</td><td>0.50</td><td>0.45</td><td>0.40</td><td>0.35</td><td>0.30</td><td>0.25</td><td>0.20</td><td>0.15</td><td>0.15</td><td>0.15</td><td>0.15</td><td>0.15</td><td>0.15</td><td>0.15</td><td>0.15</td></tr></table>                                                                                                                                                                                                                                                                                                      |                                   |      |         |           |      |      |        |              |      |      |      |      |      |      | Rated Voltage | 16        | 25 | 35      | 50        | 63  | 80 | 100    | 160      | 200 | 250          | 350       | 400 | 420  | 450  | 500                | Tanδ (max)                   | 0.50 | 0.45      | 0.40 | 0.35 | 0.30 | 0.25 | 0.20 | 0.15 | 0.15      | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15                              |              |           |  |      |      |      |      |      |  |  |  |  |  |                 |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                      | Rated Voltage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 16                                | 25   | 35      | 50        | 63   | 80   | 100    | 160          | 200  | 250  | 350  | 400  | 420  | 450  | 500           |           |    |         |           |     |    |        |          |     |              |           |     |      |      |                    |                              |      |           |      |      |      |      |      |      |           |      |      |      |      |      |                                   |              |           |  |      |      |      |      |      |  |  |  |  |  |                 |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Tanδ (max)                                                                                                                                                                                                                                                           | 0.50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.45                              | 0.40 | 0.35    | 0.30      | 0.25 | 0.20 | 0.15   | 0.15         | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 |               |           |    |         |           |     |    |        |          |     |              |           |     |      |      |                    |                              |      |           |      |      |      |      |      |      |           |      |      |      |      |      |                                   |              |           |  |      |      |      |      |      |  |  |  |  |  |                 |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Low Temperature Characteristics (at 120Hz)                                                                                                                                                                                                                           | Impedance ratio shall not exceed the values given in the table below.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                   |      |         |           |      |      |        |              |      |      |      |      |      |      |               |           |    |         |           |     |    |        |          |     |              |           |     |      |      |                    |                              |      |           |      |      |      |      |      |      |           |      |      |      |      |      |                                   |              |           |  |      |      |      |      |      |  |  |  |  |  |                 |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                      | Rated Voltage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                   | 16   | 25      | 35        | 50   | 63   | 80     | 100          | 160  | 200  | 250  | 350  | 400  | 420  | 450           | 500       |    |         |           |     |    |        |          |     |              |           |     |      |      |                    |                              |      |           |      |      |      |      |      |      |           |      |      |      |      |      |                                   |              |           |  |      |      |      |      |      |  |  |  |  |  |                 |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                      | Impedance Ratio                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Z(-25℃)/Z(+20℃)                   | 4    | 3       | 3         | 2    | 2    | 2      | 4            | 4    | 4    | 4    | 8    | 8    | 8    | 8             | 8         |    |         |           |     |    |        |          |     |              |           |     |      |      |                    |                              |      |           |      |      |      |      |      |      |           |      |      |      |      |      |                                   |              |           |  |      |      |      |      |      |  |  |  |  |  |                 |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Z(-40℃)/Z(+20℃)                   | 15   | 10      | 8         | 6    | 5    | 5      | 4            | -    | -    | -    | -    | -    | -    | -             | -         |    |         |           |     |    |        |          |     |              |           |     |      |      |                    |                              |      |           |      |      |      |      |      |      |           |      |      |      |      |      |                                   |              |           |  |      |      |      |      |      |  |  |  |  |  |                 |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Endurance                                                                                                                                                                                                                                                            | <table><tr><td>Test Time</td><td colspan="14">2,000 Hrs</td></tr><tr><td>Capacitance Change</td><td colspan="14">Within ±20% of initial value</td></tr><tr><td>Tanδ</td><td colspan="14">Less than 200% of specified value</td></tr><tr><td>Leakage Current</td><td colspan="14">Within specified value</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                   |      |         |           |      |      |        |              |      |      |      |      |      |      | Test Time     | 2,000 Hrs |    |         |           |     |    |        |          |     |              |           |     |      |      | Capacitance Change | Within ±20% of initial value |      |           |      |      |      |      |      |      |           |      |      |      |      | Tanδ | Less than 200% of specified value |              |           |  |      |      |      |      |      |  |  |  |  |  | Leakage Current | Within specified value |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                      | 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                                                                                                                                                                                                                                                      | <table><tr><td>Test Time</td><td colspan="14">1,000 Hrs</td></tr><tr><td>Capacitance Change</td><td colspan="14">Within ±20% of initial value</td></tr><tr><td>Tanδ</td><td colspan="14">Less than 150% of specified value</td></tr><tr><td>Leakage Current</td><td colspan="14">Within specified value</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                   |      |         |           |      |      |        |              |      |      |      |      |      |      | Test Time     | 1,000 Hrs |    |         |           |     |    |        |          |     |              |           |     |      |      | Capacitance Change | Within ±20% of initial value |      |           |      |      |      |      |      |      |           |      |      |      |      | Tanδ | Less than 150% of specified value |              |           |  |      |      |      |      |      |  |  |  |  |  | Leakage Current | Within specified value |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                      | Test Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1,000 Hrs                         |      |         |           |      |      |        |              |      |      |      |      |      |      |               |           |    |         |           |     |    |        |          |     |              |           |     |      |      |                    |                              |      |           |      |      |      |      |      |      |           |      |      |      |      |      |                                   |              |           |  |      |      |      |      |      |  |  |  |  |  |                 |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                      | Capacitance Change                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Within ±20% of initial value      |      |         |           |      |      |        |              |      |      |      |      |      |      |               |           |    |         |           |     |    |        |          |     |              |           |     |      |      |                    |                              |      |           |      |      |      |      |      |      |           |      |      |      |      |      |                                   |              |           |  |      |      |      |      |      |  |  |  |  |  |                 |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                      | Tanδ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Less than 150% 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 (Refer to JIS C 5101-4 4.1). |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                   |      |         |           |      |      |        |              |      |      |      |      |      |      |               |           |    |         |           |     |    |        |          |     |              |           |     |      |      |                    |                              |      |           |      |      |      |      |      |      |           |      |      |      |      |      |                                   |              |           |  |      |      |      |      |      |  |  |  |  |  |                 |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ripple Current & Frequency Multipliers                                                                                                                                                                                                                               | <table><tr><td rowspan="2">Case size</td><td colspan="2">Freq.(Hz)</td><td rowspan="2">50 / 60</td><td rowspan="2">100 / 120</td><td rowspan="2">500</td><td rowspan="2">1k</td><td rowspan="2">10k up</td></tr><tr><td colspan="2">W. V.(V)</td></tr><tr><td rowspan="3">Length ≤ 55L</td><td colspan="2">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 colspan="2">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 colspan="2">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><tr><td rowspan="2">Length ≥ 60L</td><td colspan="2">160 ~ 450</td><td>0.88</td><td>1.00</td><td>1.20</td><td>1.25</td><td>1.40</td></tr></table> |                                   |      |         |           |      |      |        |              |      |      |      |      |      |      | Case size     | Freq.(Hz) |    | 50 / 60 | 100 / 120 | 500 | 1k | 10k up | W. V.(V) |     | Length ≤ 55L | 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                              | Length ≥ 60L | 160 ~ 450 |  | 0.88 | 1.00 | 1.20 | 1.25 | 1.40 |  |  |  |  |  |                 |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                      | Case size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Freq.(Hz)                         |      | 50 / 60 | 100 / 120 | 500  | 1k   | 10k up |              |      |      |      |      |      |      |               |           |    |         |           |     |    |        |          |     |              |           |     |      |      |                    |                              |      |           |      |      |      |      |      |      |           |      |      |      |      |      |                                   |              |           |  |      |      |      |      |      |  |  |  |  |  |                 |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | W. V.(V)                          |      |         |           |      |      |        |              |      |      |      |      |      |      |               |           |    |         |           |     |    |        |          |     |              |           |     |      |      |                    |                              |      |           |      |      |      |      |      |      |           |      |      |      |      |      |                                   |              |           |  |      |      |      |      |      |  |  |  |  |  |                 |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                      | Length ≤ 55L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 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 |      |        |              |      |      |      |      |      |      |               |           |    |         |           |     |    |        |          |     |              |           |     |      |      |                    |                              |      |           |      |      |      |      |      |      |           |      |      |      |      |      |                                   |              |           |  |      |      |      |      |      |  |  |  |  |  |                 |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Length ≥ 60L                                                                                                                                                                                                                                                         | 160 ~ 450                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                   | 0.88 | 1.00    | 1.20      | 1.25 | 1.40 |        |              |      |      |      |      |      |      |               |           |    |         |           |     |    |        |          |     |              |           |     |      |      |                    |                              |      |           |      |      |      |      |      |      |           |      |      |      |      |      |                                   |              |           |  |      |      |      |      |      |  |  |  |  |  |                 |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                   |      |         |           |      |      |        |              |      |      |      |      |      |      |               |           |    |         |           |     |    |        |          |     |              |           |     |      |      |                    |                              |      |           |      |      |      |      |      |      |           |      |      |      |      |      |                                   |              |           |  |      |      |      |      |      |  |  |  |  |  |                 |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Failure percentage                                                                                                                                                                                                                                                   | ≤ 3 % (During useful life)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                   |      |         |           |      |      |        |              |      |      |      |      |      |      |               |           |    |         |           |     |    |        |          |     |              |           |     |      |      |                    |                              |      |           |      |      |      |      |      |      |           |      |      |      |      |      |                                   |              |           |  |      |      |      |      |      |  |  |  |  |  |                 |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Failure rate                                                                                                                                                                                                                                                         | Rated Voltage ≤ 100V DC: ≤ 40 fit (40 10 <sup>-9</sup> /h)      Rated voltage ≥ 160V DC: ≤ 70 fit (70 10 <sup>-9</sup> /h)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                   |      |         |           |      |      |        |              |      |      |      |      |      |      |               |           |    |         |           |     |    |        |          |     |              |           |     |      |      |                    |                              |      |           |      |      |      |      |      |      |           |      |      |      |      |      |                                   |              |           |  |      |      |      |      |      |  |  |  |  |  |                 |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |

### Diagram of Dimensions

Unit: mm



## Dimension & Permissible Ripple Current

| Working Voltage<br>V. DC | Capacitance<br>120Hz, 20°C<br>μF | φ D×L<br>mm | Ripple Current<br>120 Hz, 105°C<br>A/rms | Tan δ<br>at 120Hz, 20°C | ESR<br>120Hz, 20°C<br>Ω | LC<br>5 minutes<br>mA | Part Number      |
|--------------------------|----------------------------------|-------------|------------------------------------------|-------------------------|-------------------------|-----------------------|------------------|
| 16                       | 10,000                           | 20 × 25     | 1.61                                     | 0.50                    | 0.066                   | 1.20                  | LSG103M1C--A2025 |
|                          | 10,000                           | 22 × 25     | 1.78                                     | 0.50                    | 0.066                   | 1.20                  | LSG103M1C--A2225 |
|                          | 12,000                           | 22 × 25     | 1.92                                     | 0.50                    | 0.055                   | 1.31                  | LSG123M1C--A2225 |
|                          | 15,000                           | 22 × 30     | 2.20                                     | 0.50                    | 0.044                   | 1.47                  | LSG153M1C--A2230 |
|                          | 15,000                           | 25 × 25     | 2.25                                     | 0.50                    | 0.044                   | 1.47                  | LSG153M1C--A2525 |
|                          | 18,000                           | 22 × 35     | 2.49                                     | 0.50                    | 0.037                   | 1.50                  | LSG183M1C--A2235 |
|                          | 18,000                           | 25 × 30     | 2.52                                     | 0.50                    | 0.037                   | 1.50                  | LSG183M1C--A2530 |
|                          | 18,000                           | 30 × 25     | 2.61                                     | 0.50                    | 0.037                   | 1.50                  | LSG183M1C--A3025 |
|                          | 22,000                           | 22 × 40     | 2.90                                     | 0.50                    | 0.030                   | 1.50                  | LSG223M1C--A2240 |
|                          | 22,000                           | 25 × 30     | 2.77                                     | 0.50                    | 0.030                   | 1.50                  | LSG223M1C--A2530 |
|                          | 22,000                           | 30 × 25     | 2.88                                     | 0.50                    | 0.030                   | 1.50                  | LSG223M1C--A3025 |
|                          | 27,000                           | 25 × 35     | 3.02                                     | 0.50                    | 0.025                   | 1.50                  | LSG273M1C--A2535 |
|                          | 27,000                           | 30 × 30     | 3.15                                     | 0.50                    | 0.025                   | 1.50                  | LSG273M1C--A3030 |
|                          | 33,000                           | 30 × 30     | 3.48                                     | 0.50                    | 0.020                   | 1.50                  | LSG333M1C--A3030 |
|                          | 33,000                           | 35 × 25     | 3.57                                     | 0.50                    | 0.020                   | 1.50                  | LSG333M1C--A3525 |
|                          | 39,000                           | 30 × 35     | 4.03                                     | 0.50                    | 0.017                   | 1.50                  | LSG393M1C--A3035 |
|                          | 39,000                           | 35 × 30     | 4.16                                     | 0.50                    | 0.017                   | 1.50                  | LSG393M1C--A3530 |
|                          | 47,000                           | 35 × 35     | 4.85                                     | 0.50                    | 0.014                   | 1.50                  | LSG473M1C--A3535 |
| 25                       | 8,200                            | 22 × 25     | 1.73                                     | 0.45                    | 0.073                   | 1.36                  | LSG822M1E--A2225 |
|                          | 10,000                           | 22 × 30     | 2.05                                     | 0.45                    | 0.060                   | 1.50                  | LSG103M1E--A2230 |
|                          | 10,000                           | 25 × 25     | 2.05                                     | 0.45                    | 0.060                   | 1.50                  | LSG103M1E--A2525 |
|                          | 12,000                           | 22 × 35     | 2.23                                     | 0.45                    | 0.050                   | 1.50                  | LSG123M1E--A2235 |
|                          | 12,000                           | 25 × 25     | 2.09                                     | 0.45                    | 0.050                   | 1.50                  | LSG123M1E--A2525 |
|                          | 12,000                           | 30 × 25     | 2.45                                     | 0.45                    | 0.050                   | 1.50                  | LSG123M1E--A3025 |
|                          | 12,000                           | 35 × 25     | 2.74                                     | 0.45                    | 0.050                   | 1.50                  | LSG123M1E--A3525 |
|                          | 15,000                           | 22 × 40     | 2.65                                     | 0.45                    | 0.040                   | 1.50                  | LSG153M1E--A2240 |
|                          | 15,000                           | 25 × 35     | 2.80                                     | 0.45                    | 0.040                   | 1.50                  | LSG153M1E--A2535 |
|                          | 15,000                           | 30 × 25     | 2.72                                     | 0.45                    | 0.040                   | 1.50                  | LSG153M1E--A3025 |
|                          | 15,000                           | 35 × 25     | 3.00                                     | 0.45                    | 0.040                   | 1.50                  | LSG153M1E--A3525 |
|                          | 18,000                           | 22 × 45     | 2.93                                     | 0.45                    | 0.033                   | 1.50                  | LSG183M1E--A2245 |
|                          | 18,000                           | 25 × 35     | 2.83                                     | 0.45                    | 0.033                   | 1.50                  | LSG183M1E--A2535 |
|                          | 18,000                           | 30 × 30     | 3.07                                     | 0.45                    | 0.033                   | 1.50                  | LSG183M1E--A3030 |
|                          | 18,000                           | 35 × 25     | 3.02                                     | 0.45                    | 0.033                   | 1.50                  | LSG183M1E--A3525 |
|                          | 22,000                           | 22 × 50     | 3.31                                     | 0.45                    | 0.027                   | 1.50                  | LSG223M1E--A2250 |
|                          | 22,000                           | 25 × 40     | 3.22                                     | 0.45                    | 0.027                   | 1.50                  | LSG223M1E--A2540 |
|                          | 22,000                           | 30 × 30     | 3.18                                     | 0.45                    | 0.027                   | 1.50                  | LSG223M1E--A3030 |
|                          | 22,000                           | 35 × 25     | 3.07                                     | 0.45                    | 0.027                   | 1.50                  | LSG223M1E--A3525 |
|                          | 27,000                           | 30 × 35     | 3.35                                     | 0.45                    | 0.022                   | 1.50                  | LSG273M1E--A3035 |
|                          | 27,000                           | 35 × 30     | 3.46                                     | 0.45                    | 0.022                   | 1.50                  | LSG273M1E--A3530 |
| 35                       | 3,300                            | 22 × 25     | 1.31                                     | 0.40                    | 0.161                   | 1.02                  | LSG332M1V--A2225 |
|                          | 3,900                            | 22 × 30     | 1.54                                     | 0.40                    | 0.136                   | 1.11                  | LSG392M1V--A2230 |
|                          | 4,700                            | 22 × 25     | 1.63                                     | 0.40                    | 0.113                   | 1.22                  | LSG472M1V--A2225 |
|                          | 4,700                            | 25 × 25     | 1.70                                     | 0.40                    | 0.113                   | 1.22                  | LSG472M1V--A2525 |
|                          | 5,600                            | 22 × 25     | 1.63                                     | 0.40                    | 0.095                   | 1.33                  | LSG562M1V--A2225 |
|                          | 5,600                            | 25 × 25     | 1.77                                     | 0.40                    | 0.095                   | 1.33                  | LSG562M1V--A2525 |
|                          | 5,600                            | 30 × 25     | 1.99                                     | 0.40                    | 0.095                   | 1.33                  | LSG562M1V--A3025 |
|                          | 6,800                            | 22 × 30     | 1.86                                     | 0.40                    | 0.078                   | 1.46                  | LSG682M1V--A2230 |
|                          | 6,800                            | 25 × 30     | 2.04                                     | 0.40                    | 0.078                   | 1.46                  | LSG682M1V--A2530 |
|                          | 6,800                            | 30 × 30     | 2.24                                     | 0.40                    | 0.078                   | 1.46                  | LSG682M1V--A3030 |
|                          | 8,200                            | 22 × 35     | 2.10                                     | 0.40                    | 0.065                   | 1.50                  | LSG822M1V--A2235 |
|                          | 8,200                            | 25 × 35     | 2.60                                     | 0.40                    | 0.065                   | 1.50                  | LSG822M1V--A2535 |
|                          | 8,200                            | 30 × 25     | 2.49                                     | 0.40                    | 0.065                   | 1.50                  | LSG822M1V--A3025 |
|                          | 8,200                            | 35 × 25     | 2.69                                     | 0.40                    | 0.065                   | 1.50                  | LSG822M1V--A3525 |
|                          | 10,000                           | 22 × 40     | 2.42                                     | 0.40                    | 0.053                   | 1.50                  | LSG103M1V--A2240 |
|                          | 10,000                           | 25 × 40     | 2.83                                     | 0.40                    | 0.053                   | 1.50                  | LSG103M1V--A2540 |
|                          | 10,000                           | 30 × 30     | 2.75                                     | 0.40                    | 0.053                   | 1.50                  | LSG103M1V--A3030 |
|                          | 12,000                           | 22 × 45     | 2.79                                     | 0.40                    | 0.044                   | 1.50                  | LSG123M1V--A2245 |
|                          | 12,000                           | 25 × 45     | 3.00                                     | 0.40                    | 0.044                   | 1.50                  | LSG123M1V--A2545 |
|                          | 12,000                           | 30 × 35     | 2.96                                     | 0.40                    | 0.044                   | 1.50                  | LSG123M1V--A3035 |
|                          | 12,000                           | 35 × 25     | 2.75                                     | 0.40                    | 0.044                   | 1.50                  | LSG123M1V--A3525 |



## Dimension & Permissible Ripple Current

| Working Voltage<br>V. DC | Capacitance<br>120Hz, 20°C<br>μF | φ D×L<br>mm | Ripple Current<br>120 Hz, 105°C<br>A/rms | Tan δ<br>at 120Hz, 20°C | ESR<br>120Hz, 20°C<br>Ω | LC<br>5 minutes<br>mA | Part Number      |
|--------------------------|----------------------------------|-------------|------------------------------------------|-------------------------|-------------------------|-----------------------|------------------|
| 35                       | 15,000                           | 25 × 45     | 3.24                                     | 0.40                    | 0.035                   | 1.50                  | LSG153M1V--A2545 |
|                          | 15,000                           | 30 × 35     | 3.24                                     | 0.40                    | 0.035                   | 1.50                  | LSG153M1V--A3035 |
|                          | 15,000                           | 35 × 25     | 3.12                                     | 0.40                    | 0.035                   | 1.50                  | LSG153M1V--A3525 |
|                          | 18,000                           | 25 × 50     | 3.71                                     | 0.40                    | 0.029                   | 1.50                  | LSG183M1V--A2550 |
|                          | 18,000                           | 30 × 45     | 4.07                                     | 0.40                    | 0.029                   | 1.50                  | LSG183M1V--A3045 |
|                          | 18,000                           | 35 × 35     | 4.02                                     | 0.40                    | 0.029                   | 1.50                  | LSG183M1V--A3535 |
|                          | 22,000                           | 30 × 45     | 4.34                                     | 0.40                    | 0.024                   | 1.50                  | LSG223M1V--A3045 |
|                          | 22,000                           | 35 × 40     | 4.69                                     | 0.40                    | 0.024                   | 1.50                  | LSG223M1V--A3540 |
| 50                       | 1,800                            | 22 × 25     | 1.33                                     | 0.35                    | 0.258                   | 0.90                  | LSG182M1H--A2225 |
|                          | 2,200                            | 22 × 25     | 1.48                                     | 0.35                    | 0.211                   | 0.99                  | LSG222M1H--A2225 |
|                          | 2,700                            | 22 × 25     | 1.53                                     | 0.35                    | 0.172                   | 1.10                  | LSG272M1H--A2225 |
|                          | 2,700                            | 25 × 25     | 1.57                                     | 0.35                    | 0.172                   | 1.10                  | LSG272M1H--A2525 |
|                          | 3,300                            | 22 × 30     | 1.76                                     | 0.35                    | 0.141                   | 1.22                  | LSG332M1H--A2230 |
|                          | 3,300                            | 25 × 25     | 1.70                                     | 0.35                    | 0.141                   | 1.22                  | LSG332M1H--A2525 |
|                          | 3,900                            | 22 × 35     | 1.97                                     | 0.35                    | 0.119                   | 1.32                  | LSG392M1H--A2235 |
|                          | 3,900                            | 25 × 25     | 1.82                                     | 0.35                    | 0.119                   | 1.32                  | LSG392M1H--A2525 |
|                          | 3,900                            | 30 × 25     | 1.95                                     | 0.35                    | 0.119                   | 1.32                  | LSG392M1H--A3025 |
|                          | 4,700                            | 22 × 35     | 2.01                                     | 0.35                    | 0.099                   | 1.45                  | LSG472M1H--A2235 |
|                          | 4,700                            | 25 × 30     | 2.18                                     | 0.35                    | 0.099                   | 1.45                  | LSG472M1H--A2530 |
|                          | 4,700                            | 30 × 25     | 2.04                                     | 0.35                    | 0.099                   | 1.45                  | LSG472M1H--A3025 |
|                          | 4,700                            | 35 × 25     | 2.48                                     | 0.35                    | 0.099                   | 1.45                  | LSG472M1H--A3525 |
|                          | 5,600                            | 22 × 40     | 2.32                                     | 0.35                    | 0.083                   | 1.50                  | LSG562M1H--A2240 |
|                          | 5,600                            | 25 × 35     | 2.47                                     | 0.35                    | 0.083                   | 1.50                  | LSG562M1H--A2535 |
|                          | 5,600                            | 30 × 25     | 2.33                                     | 0.35                    | 0.083                   | 1.50                  | LSG562M1H--A3025 |
|                          | 6,800                            | 22 × 45     | 2.70                                     | 0.35                    | 0.068                   | 1.50                  | LSG682M1H--A2245 |
|                          | 6,800                            | 25 × 40     | 2.92                                     | 0.35                    | 0.068                   | 1.50                  | LSG682M1H--A2540 |
|                          | 6,800                            | 30 × 30     | 2.84                                     | 0.35                    | 0.068                   | 1.50                  | LSG682M1H--A3030 |
|                          | 6,800                            | 35 × 25     | 2.91                                     | 0.35                    | 0.068                   | 1.50                  | LSG682M1H--A3525 |
|                          | 8,200                            | 25 × 45     | 3.13                                     | 0.35                    | 0.057                   | 1.50                  | LSG822M1H--A2545 |
|                          | 8,200                            | 30 × 35     | 3.13                                     | 0.35                    | 0.057                   | 1.50                  | LSG822M1H--A3035 |
|                          | 8,200                            | 35 × 30     | 3.23                                     | 0.35                    | 0.057                   | 1.50                  | LSG822M1H--A3530 |
|                          | 10,000                           | 25 × 50     | 3.39                                     | 0.35                    | 0.046                   | 1.50                  | LSG103M1H--A2550 |
|                          | 10,000                           | 30 × 40     | 3.55                                     | 0.35                    | 0.046                   | 1.50                  | LSG103M1H--A3040 |
|                          | 10,000                           | 35 × 30     | 3.47                                     | 0.35                    | 0.046                   | 1.50                  | LSG103M1H--A3530 |
|                          | 12,000                           | 30 × 45     | 4.04                                     | 0.35                    | 0.039                   | 1.50                  | LSG123M1H--A3045 |
|                          | 12,000                           | 35 × 35     | 3.98                                     | 0.35                    | 0.039                   | 1.50                  | LSG123M1H--A3535 |
|                          | 15,000                           | 30 × 50     | 4.60                                     | 0.35                    | 0.031                   | 1.50                  | LSG153M1H--A3050 |
|                          | 15,000                           | 35 × 45     | 4.80                                     | 0.35                    | 0.031                   | 1.50                  | LSG153M1H--A3545 |
| 63                       | 1,200                            | 22 × 25     | 1.19                                     | 0.30                    | 0.332                   | 0.82                  | LSG122M1J--A2225 |
|                          | 1,500                            | 22 × 25     | 1.30                                     | 0.30                    | 0.265                   | 0.92                  | LSG152M1J--A2225 |
|                          | 1,500                            | 25 × 25     | 1.38                                     | 0.30                    | 0.265                   | 0.92                  | LSG152M1J--A2525 |
|                          | 1,800                            | 22 × 25     | 1.36                                     | 0.30                    | 0.221                   | 1.01                  | LSG182M1J--A2225 |
|                          | 1,800                            | 25 × 25     | 1.52                                     | 0.30                    | 0.221                   | 1.01                  | LSG182M1J--A2525 |
|                          | 2,200                            | 22 × 30     | 1.55                                     | 0.30                    | 0.181                   | 1.12                  | LSG222M1J--A2230 |
|                          | 2,200                            | 25 × 25     | 1.60                                     | 0.30                    | 0.181                   | 1.12                  | LSG222M1J--A2525 |
|                          | 2,700                            | 22 × 35     | 1.89                                     | 0.30                    | 0.147                   | 1.24                  | LSG272M1J--A2235 |
|                          | 2,700                            | 25 × 30     | 1.90                                     | 0.30                    | 0.147                   | 1.24                  | LSG272M1J--A2530 |
|                          | 2,700                            | 30 × 25     | 1.97                                     | 0.30                    | 0.147                   | 1.24                  | LSG272M1J--A3025 |
|                          | 3,300                            | 22 × 40     | 1.99                                     | 0.30                    | 0.121                   | 1.37                  | LSG332M1J--A2240 |
|                          | 3,300                            | 25 × 35     | 2.06                                     | 0.30                    | 0.121                   | 1.37                  | LSG332M1J--A2535 |
|                          | 3,300                            | 30 × 25     | 2.00                                     | 0.30                    | 0.121                   | 1.37                  | LSG332M1J--A3025 |
|                          | 3,300                            | 35 × 25     | 2.22                                     | 0.30                    | 0.121                   | 1.37                  | LSG332M1J--A3525 |
|                          | 3,900                            | 22 × 45     | 2.34                                     | 0.30                    | 0.102                   | 1.49                  | LSG392M1J--A2245 |
|                          | 3,900                            | 25 × 35     | 2.20                                     | 0.30                    | 0.102                   | 1.49                  | LSG392M1J--A2535 |
|                          | 3,900                            | 30 × 25     | 2.18                                     | 0.30                    | 0.102                   | 1.49                  | LSG392M1J--A3025 |
|                          | 3,900                            | 35 × 25     | 2.40                                     | 0.30                    | 0.102                   | 1.49                  | LSG392M1J--A3525 |
|                          | 4,700                            | 22 × 50     | 2.58                                     | 0.30                    | 0.085                   | 1.50                  | LSG472M1J--A2250 |
|                          | 4,700                            | 25 × 40     | 2.51                                     | 0.30                    | 0.085                   | 1.50                  | LSG472M1J--A2540 |
|                          | 4,700                            | 30 × 30     | 2.48                                     | 0.30                    | 0.085                   | 1.50                  | LSG472M1J--A3030 |
|                          | 4,700                            | 35 × 25     | 2.54                                     | 0.30                    | 0.085                   | 1.50                  | LSG472M1J--A3525 |
|                          | 5,600                            | 25 × 45     | 2.92                                     | 0.30                    | 0.071                   | 1.50                  | LSG562M1J--A2545 |
|                          | 5,600                            | 30 × 35     | 2.91                                     | 0.30                    | 0.071                   | 1.50                  | LSG562M1J--A3035 |
|                          | 5,600                            | 35 × 30     | 3.00                                     | 0.30                    | 0.071                   | 1.50                  | LSG562M1J--A3530 |
|                          | 6,800                            | 30 × 50     | 3.65                                     | 0.30                    | 0.059                   | 1.50                  | LSG682M1J--A3050 |
|                          | 6,800                            | 35 × 30     | 3.30                                     | 0.30                    | 0.059                   | 1.50                  | LSG682M1J--A3530 |



## Dimension & Permissible Ripple Current

| Working Voltage<br>V. DC | Capacitance<br>120Hz, 20°C<br>μF | φ D×L<br>mm | Ripple Current<br>120 Hz, 105°C<br>A/rms | Tan δ<br>at 120Hz, 20°C | ESR<br>120Hz, 20°C<br>Ω | LC<br>5 minutes<br>mA | Part Number      |
|--------------------------|----------------------------------|-------------|------------------------------------------|-------------------------|-------------------------|-----------------------|------------------|
| 63                       | 8,200                            | 30 × 45     | 3.57                                     | 0.30                    | 0.049                   | 1.50                  | LSG822M1J--A3045 |
|                          | 8,200                            | 35 × 35     | 3.52                                     | 0.30                    | 0.049                   | 1.50                  | LSG822M1J--A3535 |
|                          | 10,000                           | 35 × 40     | 3.90                                     | 0.30                    | 0.040                   | 1.50                  | LSG103M1J--A3540 |
|                          | 12,000                           | 35 × 45     | 4.50                                     | 0.30                    | 0.033                   | 1.50                  | LSG123M1J--A3545 |
| 80                       | 1,000                            | 22 × 25     | 1.05                                     | 0.25                    | 0.332                   | 0.85                  | LSG102M1K--A2225 |
|                          | 1,200                            | 22 × 30     | 1.24                                     | 0.25                    | 0.276                   | 0.93                  | LSG122M1K--A2230 |
|                          | 1,500                            | 22 × 35     | 1.48                                     | 0.25                    | 0.221                   | 1.04                  | LSG152M1K--A2235 |
|                          | 1,500                            | 25 × 25     | 1.38                                     | 0.25                    | 0.221                   | 1.04                  | LSG152M1K--A2525 |
|                          | 1,800                            | 22 × 40     | 1.72                                     | 0.25                    | 0.184                   | 1.14                  | LSG182M1K--A2240 |
|                          | 1,800                            | 25 × 30     | 1.63                                     | 0.25                    | 0.184                   | 1.14                  | LSG182M1K--A2530 |
|                          | 2,200                            | 22 × 45     | 1.82                                     | 0.25                    | 0.151                   | 1.26                  | LSG222M1K--A2245 |
|                          | 2,200                            | 25 × 30     | 1.65                                     | 0.25                    | 0.151                   | 1.26                  | LSG222M1K--A2530 |
|                          | 2,700                            | 25 × 45     | 2.17                                     | 0.25                    | 0.123                   | 1.39                  | LSG272M1K--A2545 |
|                          | 2,700                            | 30 × 30     | 2.03                                     | 0.25                    | 0.123                   | 1.39                  | LSG272M1K--A3030 |
|                          | 3,300                            | 25 × 50     | 2.51                                     | 0.25                    | 0.101                   | 1.50                  | LSG332M1K--A2550 |
|                          | 3,300                            | 35 × 25     | 2.30                                     | 0.25                    | 0.101                   | 1.50                  | LSG332M1K--A3525 |
|                          | 3,900                            | 30 × 45     | 2.89                                     | 0.25                    | 0.085                   | 1.50                  | LSG392M1K--A3045 |
|                          | 3,900                            | 35 × 30     | 2.68                                     | 0.25                    | 0.085                   | 1.50                  | LSG392M1K--A3530 |
|                          | 4,700                            | 30 × 50     | 2.97                                     | 0.25                    | 0.071                   | 1.50                  | LSG472M1K--A3050 |
|                          | 4,700                            | 35 × 30     | 2.64                                     | 0.25                    | 0.071                   | 1.50                  | LSG472M1K--A3530 |
|                          | 5,600                            | 30 × 45     | 3.10                                     | 0.25                    | 0.059                   | 1.50                  | LSG562M1K--A3045 |
|                          | 5,600                            | 35 × 45     | 3.39                                     | 0.25                    | 0.059                   | 1.50                  | LSG562M1K--A3545 |
|                          | 6,800                            | 35 × 40     | 3.56                                     | 0.25                    | 0.049                   | 1.50                  | LSG682M1K--A3540 |
|                          | 6,800                            | 35 × 50     | 3.90                                     | 0.25                    | 0.049                   | 1.50                  | LSG682M1K--A3550 |
| 100                      | 820                              | 22 × 30     | 1.14                                     | 0.20                    | 0.324                   | 0.86                  | LSG821M2A--A2230 |
|                          | 1,000                            | 22 × 30     | 1.26                                     | 0.20                    | 0.265                   | 0.95                  | LSG102M2A--A2230 |
|                          | 1,200                            | 22 × 35     | 1.55                                     | 0.20                    | 0.221                   | 1.04                  | LSG122M2A--A2235 |
|                          | 1,200                            | 25 × 30     | 1.56                                     | 0.20                    | 0.221                   | 1.04                  | LSG122M2A--A2530 |
|                          | 1,200                            | 30 × 25     | 1.68                                     | 0.20                    | 0.221                   | 1.04                  | LSG122M2A--A3025 |
|                          | 1,500                            | 22 × 40     | 1.78                                     | 0.20                    | 0.177                   | 1.16                  | LSG152M2A--A2240 |
|                          | 1,500                            | 25 × 35     | 1.80                                     | 0.20                    | 0.177                   | 1.16                  | LSG152M2A--A2535 |
|                          | 1,500                            | 30 × 25     | 1.76                                     | 0.20                    | 0.177                   | 1.16                  | LSG152M2A--A3025 |
|                          | 1,500                            | 35 × 25     | 1.98                                     | 0.20                    | 0.177                   | 1.16                  | LSG152M2A--A3525 |
|                          | 1,800                            | 22 × 45     | 1.99                                     | 0.20                    | 0.147                   | 1.27                  | LSG182M2A--A2245 |
|                          | 1,800                            | 25 × 35     | 1.95                                     | 0.20                    | 0.147                   | 1.27                  | LSG182M2A--A2535 |
|                          | 1,800                            | 30 × 30     | 2.29                                     | 0.20                    | 0.147                   | 1.27                  | LSG182M2A--A3030 |
|                          | 1,800                            | 35 × 25     | 2.34                                     | 0.20                    | 0.147                   | 1.27                  | LSG182M2A--A3525 |
|                          | 2,200                            | 22 × 50     | 2.21                                     | 0.20                    | 0.121                   | 1.41                  | LSG222M2A--A2250 |
|                          | 2,200                            | 25 × 40     | 2.15                                     | 0.20                    | 0.121                   | 1.41                  | LSG222M2A--A2540 |
|                          | 2,200                            | 30 × 30     | 2.12                                     | 0.20                    | 0.121                   | 1.41                  | LSG222M2A--A3030 |
|                          | 2,200                            | 35 × 25     | 2.27                                     | 0.20                    | 0.121                   | 1.41                  | LSG222M2A--A3525 |
|                          | 2,700                            | 25 × 50     | 2.59                                     | 0.20                    | 0.098                   | 1.50                  | LSG272M2A--A2550 |
|                          | 2,700                            | 30 × 35     | 2.37                                     | 0.20                    | 0.098                   | 1.50                  | LSG272M2A--A3035 |
|                          | 2,700                            | 35 × 30     | 2.62                                     | 0.20                    | 0.098                   | 1.50                  | LSG272M2A--A3530 |
|                          | 3,300                            | 30 × 40     | 2.77                                     | 0.20                    | 0.080                   | 1.50                  | LSG332M2A--A3040 |
|                          | 3,300                            | 35 × 35     | 2.99                                     | 0.20                    | 0.080                   | 1.50                  | LSG332M2A--A3535 |
|                          | 3,900                            | 30 × 45     | 3.02                                     | 0.20                    | 0.068                   | 1.50                  | LSG392M2A--A3045 |
|                          | 3,900                            | 35 × 40     | 3.35                                     | 0.20                    | 0.068                   | 1.50                  | LSG392M2A--A3540 |
|                          | 4,700                            | 35 × 40     | 3.30                                     | 0.20                    | 0.056                   | 1.50                  | LSG472M2A--A3540 |
|                          | 5,600                            | 35 × 45     | 3.51                                     | 0.20                    | 0.047                   | 1.50                  | LSG562M2A--A3545 |
| 160                      | 270                              | 22 × 25     | 0.86                                     | 0.15                    | 0.737                   | 0.62                  | LSG271M2C--A2225 |
|                          | 330                              | 22 × 25     | 1.10                                     | 0.15                    | 0.603                   | 0.69                  | LSG331M2C--A2225 |
|                          | 390                              | 22 × 30     | 1.22                                     | 0.15                    | 0.510                   | 0.75                  | LSG391M2C--A2230 |
|                          | 390                              | 25 × 25     | 1.15                                     | 0.15                    | 0.510                   | 0.75                  | LSG391M2C--A2525 |
|                          | 470                              | 22 × 35     | 1.35                                     | 0.15                    | 0.423                   | 0.82                  | LSG471M2C--A2235 |
|                          | 470                              | 25 × 25     | 1.33                                     | 0.15                    | 0.423                   | 0.82                  | LSG471M2C--A2525 |
|                          | 560                              | 22 × 40     | 1.50                                     | 0.15                    | 0.355                   | 0.90                  | LSG561M2C--A2240 |
|                          | 560                              | 25 × 30     | 1.45                                     | 0.15                    | 0.355                   | 0.90                  | LSG561M2C--A2530 |
|                          | 560                              | 30 × 25     | 1.40                                     | 0.15                    | 0.355                   | 0.90                  | LSG561M2C--A3025 |
|                          | 680                              | 22 × 45     | 1.65                                     | 0.15                    | 0.293                   | 0.99                  | LSG681M2C--A2245 |
|                          | 680                              | 25 × 35     | 1.65                                     | 0.15                    | 0.293                   | 0.99                  | LSG681M2C--A2535 |
|                          | 680                              | 30 × 25     | 1.65                                     | 0.15                    | 0.293                   | 0.99                  | LSG681M2C--A3025 |
|                          | 820                              | 22 × 50     | 1.93                                     | 0.15                    | 0.243                   | 1.09                  | LSG821M2C--A2250 |
|                          | 820                              | 25 × 40     | 1.85                                     | 0.15                    | 0.243                   | 1.09                  | LSG821M2C--A2540 |



## Dimension & Permissible Ripple Current

| Working Voltage<br>V. DC | Capacitance<br>120Hz, 20°C<br>μF | φ D×L<br>mm | Ripple Current<br>120 Hz, 105°C<br>A/rms | Tan δ<br>at 120Hz, 20°C | ESR<br>120Hz, 20°C<br>Ω | LC<br>5 minutes<br>mA | Part Number      |
|--------------------------|----------------------------------|-------------|------------------------------------------|-------------------------|-------------------------|-----------------------|------------------|
| 160                      | 820                              | 30 × 30     | 1.76                                     | 0.15                    | 0.243                   | 1.09                  | LSG821M2C--A3030 |
|                          | 820                              | 35 × 25     | 1.91                                     | 0.15                    | 0.243                   | 1.09                  | LSG821M2C--A3525 |
|                          | 1,000                            | 25 × 45     | 2.20                                     | 0.15                    | 0.199                   | 1.20                  | LSG102M2C--A2545 |
|                          | 1,000                            | 30 × 35     | 2.02                                     | 0.15                    | 0.199                   | 1.20                  | LSG102M2C--A3035 |
|                          | 1,000                            | 35 × 30     | 2.44                                     | 0.15                    | 0.199                   | 1.20                  | LSG102M2C--A3530 |
|                          | 1,200                            | 25 × 50     | 2.45                                     | 0.15                    | 0.166                   | 1.31                  | LSG122M2C--A2550 |
|                          | 1,200                            | 30 × 40     | 2.35                                     | 0.15                    | 0.166                   | 1.31                  | LSG122M2C--A3040 |
|                          | 1,200                            | 35 × 35     | 2.50                                     | 0.15                    | 0.166                   | 1.31                  | LSG122M2C--A3535 |
|                          | 1,500                            | 30 × 45     | 2.82                                     | 0.15                    | 0.133                   | 1.47                  | LSG152M2C--A3045 |
|                          | 1,500                            | 35 × 40     | 2.70                                     | 0.15                    | 0.133                   | 1.47                  | LSG152M2C--A3540 |
|                          | 1,800                            | 30 × 50     | 3.31                                     | 0.15                    | 0.111                   | 1.50                  | LSG182M2C--A3050 |
|                          | 1,800                            | 35 × 45     | 2.85                                     | 0.15                    | 0.111                   | 1.50                  | LSG182M2C--A3545 |
| 200                      | 270                              | 22 × 25     | 0.95                                     | 0.15                    | 0.737                   | 0.70                  | LSG271M2D--A2225 |
|                          | 330                              | 22 × 30     | 1.13                                     | 0.15                    | 0.603                   | 0.77                  | LSG331M2D--A2230 |
|                          | 330                              | 25 × 25     | 1.13                                     | 0.15                    | 0.603                   | 0.77                  | LSG331M2D--A2525 |
|                          | 390                              | 22 × 35     | 1.25                                     | 0.15                    | 0.510                   | 0.84                  | LSG391M2D--A2235 |
|                          | 390                              | 25 × 30     | 1.21                                     | 0.15                    | 0.510                   | 0.84                  | LSG391M2D--A2530 |
|                          | 390                              | 30 × 25     | 1.20                                     | 0.15                    | 0.510                   | 0.84                  | LSG391M2D--A3025 |
|                          | 470                              | 22 × 35     | 1.23                                     | 0.15                    | 0.423                   | 0.92                  | LSG471M2D--A2235 |
|                          | 470                              | 25 × 30     | 1.32                                     | 0.15                    | 0.423                   | 0.92                  | LSG471M2D--A2530 |
|                          | 470                              | 30 × 25     | 1.50                                     | 0.15                    | 0.423                   | 0.92                  | LSG471M2D--A3025 |
|                          | 560                              | 22 × 40     | 1.43                                     | 0.15                    | 0.355                   | 1.00                  | LSG561M2D--A2240 |
|                          | 560                              | 25 × 35     | 1.50                                     | 0.15                    | 0.355                   | 1.00                  | LSG561M2D--A2535 |
|                          | 560                              | 30 × 30     | 1.52                                     | 0.15                    | 0.355                   | 1.00                  | LSG561M2D--A3030 |
|                          | 560                              | 35 × 25     | 1.49                                     | 0.15                    | 0.355                   | 1.00                  | LSG561M2D--A3525 |
|                          | 680                              | 22 × 50     | 1.74                                     | 0.15                    | 0.293                   | 1.11                  | LSG681M2D--A2250 |
|                          | 680                              | 25 × 40     | 1.70                                     | 0.15                    | 0.293                   | 1.11                  | LSG681M2D--A2540 |
|                          | 680                              | 30 × 30     | 1.58                                     | 0.15                    | 0.293                   | 1.11                  | LSG681M2D--A3030 |
|                          | 680                              | 35 × 25     | 1.72                                     | 0.15                    | 0.293                   | 1.11                  | LSG681M2D--A3525 |
|                          | 820                              | 25 × 45     | 1.85                                     | 0.15                    | 0.243                   | 1.21                  | LSG821M2D--A2545 |
|                          | 820                              | 30 × 35     | 1.85                                     | 0.15                    | 0.243                   | 1.21                  | LSG821M2D--A3035 |
|                          | 820                              | 35 × 30     | 1.90                                     | 0.15                    | 0.243                   | 1.21                  | LSG821M2D--A3530 |
|                          | 1,000                            | 25 × 55     | 2.13                                     | 0.15                    | 0.199                   | 1.34                  | LSG102M2D--A2555 |
|                          | 1,000                            | 30 × 40     | 2.06                                     | 0.15                    | 0.199                   | 1.34                  | LSG102M2D--A3040 |
|                          | 1,000                            | 35 × 30     | 2.01                                     | 0.15                    | 0.199                   | 1.34                  | LSG102M2D--A3530 |
|                          | 1,200                            | 30 × 45     | 2.37                                     | 0.15                    | 0.166                   | 1.47                  | LSG122M2D--A3045 |
|                          | 1,200                            | 35 × 35     | 2.34                                     | 0.15                    | 0.166                   | 1.47                  | LSG122M2D--A3535 |
|                          | 1,500                            | 30 × 50     | 2.77                                     | 0.15                    | 0.133                   | 1.50                  | LSG152M2D--A3050 |
|                          | 1,500                            | 35 × 40     | 2.76                                     | 0.15                    | 0.133                   | 1.50                  | LSG152M2D--A3540 |
|                          | 1,800                            | 35 × 45     | 3.17                                     | 0.15                    | 0.111                   | 1.50                  | LSG182M2D--A3545 |
|                          | 2,200                            | 35 × 55     | 3.82                                     | 0.15                    | 0.090                   | 1.50                  | LSG222M2D--A3555 |
|                          | 2,700                            | 40 × 50     | 4.39                                     | 0.15                    | 0.074                   | 1.50                  | LSG272M2D--A4050 |
| 250                      | 180                              | 22 × 25     | 0.78                                     | 0.15                    | 1.106                   | 0.64                  | LSG181M2E--A2225 |
|                          | 220                              | 22 × 30     | 0.85                                     | 0.15                    | 0.905                   | 0.70                  | LSG221M2E--A2230 |
|                          | 220                              | 25 × 25     | 0.90                                     | 0.15                    | 0.905                   | 0.70                  | LSG221M2E--A2525 |
|                          | 270                              | 22 × 30     | 0.91                                     | 0.15                    | 0.737                   | 0.78                  | LSG271M2E--A2230 |
|                          | 270                              | 25 × 25     | 0.91                                     | 0.15                    | 0.737                   | 0.78                  | LSG271M2E--A2525 |
|                          | 270                              | 30 × 25     | 1.01                                     | 0.15                    | 0.737                   | 0.78                  | LSG271M2E--A3025 |
|                          | 330                              | 22 × 35     | 1.03                                     | 0.15                    | 0.603                   | 0.86                  | LSG331M2E--A2235 |
|                          | 330                              | 25 × 30     | 1.13                                     | 0.15                    | 0.603                   | 0.86                  | LSG331M2E--A2530 |
|                          | 330                              | 30 × 25     | 1.05                                     | 0.15                    | 0.603                   | 0.86                  | LSG331M2E--A3025 |
|                          | 390                              | 22 × 40     | 1.13                                     | 0.15                    | 0.510                   | 0.94                  | LSG391M2E--A2240 |
|                          | 390                              | 25 × 35     | 1.27                                     | 0.15                    | 0.510                   | 0.94                  | LSG391M2E--A2535 |
|                          | 390                              | 30 × 25     | 1.11                                     | 0.15                    | 0.510                   | 0.94                  | LSG391M2E--A3025 |
|                          | 470                              | 22 × 45     | 1.31                                     | 0.15                    | 0.423                   | 1.03                  | LSG471M2E--A2245 |
|                          | 470                              | 25 × 40     | 1.49                                     | 0.15                    | 0.423                   | 1.03                  | LSG471M2E--A2540 |
|                          | 470                              | 30 × 30     | 1.37                                     | 0.15                    | 0.423                   | 1.03                  | LSG471M2E--A3030 |
|                          | 470                              | 35 × 25     | 1.17                                     | 0.15                    | 0.423                   | 1.03                  | LSG471M2E--A3525 |
|                          | 560                              | 25 × 45     | 1.79                                     | 0.15                    | 0.355                   | 1.12                  | LSG561M2E--A2545 |
|                          | 560                              | 30 × 35     | 1.58                                     | 0.15                    | 0.355                   | 1.12                  | LSG561M2E--A3035 |
|                          | 560                              | 35 × 25     | 1.61                                     | 0.15                    | 0.355                   | 1.12                  | LSG561M2E--A3525 |
|                          | 680                              | 25 × 50     | 1.77                                     | 0.15                    | 0.293                   | 1.24                  | LSG681M2E--A2550 |
|                          | 680                              | 30 × 40     | 2.00                                     | 0.15                    | 0.293                   | 1.24                  | LSG681M2E--A3040 |
|                          | 680                              | 35 × 30     | 1.95                                     | 0.15                    | 0.293                   | 1.24                  | LSG681M2E--A3530 |



## Dimension & Permissible Ripple Current

| Working Voltage<br>V. DC | Capacitance<br>120Hz, 20°C<br>μF | φ D×L<br>mm | Ripple Current<br>120 Hz, 105°C<br>A/rms | Tan δ<br>at 120Hz, 20°C | ESR<br>120Hz, 20°C<br>Ω | LC<br>5 minutes<br>mA | Part Number      |
|--------------------------|----------------------------------|-------------|------------------------------------------|-------------------------|-------------------------|-----------------------|------------------|
| 250                      | 820                              | 30 × 45     | 2.30                                     | 0.15                    | 0.243                   | 1.36                  | LSG821M2E--A3045 |
|                          | 820                              | 35 × 35     | 2.27                                     | 0.15                    | 0.243                   | 1.36                  | LSG821M2E--A3535 |
|                          | 1,000                            | 30 × 50     | 2.37                                     | 0.15                    | 0.199                   | 1.50                  | LSG102M2E--A3050 |
|                          | 1,000                            | 35 × 40     | 2.65                                     | 0.15                    | 0.199                   | 1.50                  | LSG102M2E--A3540 |
|                          | 1,200                            | 30 × 55     | 2.71                                     | 0.15                    | 0.166                   | 1.50                  | LSG122M2E--A3055 |
|                          | 1,200                            | 35 × 45     | 3.05                                     | 0.15                    | 0.166                   | 1.50                  | LSG122M2E--A3545 |
|                          | 1,500                            | 35 × 50     | 3.18                                     | 0.15                    | 0.133                   | 1.50                  | LSG152M2E--A3550 |
|                          | 1,800                            | 35 × 60     | 3.76                                     | 0.15                    | 0.111                   | 1.50                  | LSG182M2E--A3560 |
|                          | 2,200                            | 35 × 70     | 4.45                                     | 0.15                    | 0.090                   | 1.50                  | LSG222M2E--A3570 |
| 350                      | 100                              | 22 × 25     | 0.58                                     | 0.15                    | 2.927                   | 0.46                  | LSG101M2V--A2225 |
|                          | 120                              | 22 × 30     | 0.69                                     | 0.15                    | 1.990                   | 0.56                  | LSG121M2V--A2230 |
|                          | 120                              | 25 × 25     | 0.69                                     | 0.15                    | 1.990                   | 0.56                  | LSG121M2V--A2525 |
|                          | 150                              | 22 × 35     | 0.80                                     | 0.15                    | 1.327                   | 0.69                  | LSG151M2V--A2235 |
|                          | 180                              | 25 × 30     | 0.82                                     | 0.15                    | 1.106                   | 0.75                  | LSG181M2V--A2530 |
|                          | 180                              | 30 × 25     | 0.85                                     | 0.15                    | 1.106                   | 0.75                  | LSG181M2V--A3025 |
|                          | 220                              | 22 × 40     | 0.95                                     | 0.15                    | 0.905                   | 0.83                  | LSG221M2V--A2240 |
|                          | 220                              | 25 × 40     | 1.04                                     | 0.15                    | 0.905                   | 0.83                  | LSG221M2V--A2540 |
|                          | 220                              | 30 × 30     | 1.02                                     | 0.15                    | 0.905                   | 0.83                  | LSG221M2V--A3030 |
|                          | 220                              | 35 × 25     | 1.04                                     | 0.15                    | 0.905                   | 0.83                  | LSG221M2V--A3525 |
|                          | 270                              | 25 × 45     | 1.17                                     | 0.15                    | 0.737                   | 0.92                  | LSG271M2V--A2545 |
|                          | 270                              | 30 × 35     | 1.17                                     | 0.15                    | 0.737                   | 0.92                  | LSG271M2V--A3035 |
|                          | 270                              | 35 × 25     | 1.12                                     | 0.15                    | 0.737                   | 0.92                  | LSG271M2V--A3525 |
|                          | 330                              | 25 × 50     | 1.20                                     | 0.15                    | 0.603                   | 1.02                  | LSG331M2V--A2550 |
|                          | 330                              | 30 × 35     | 1.12                                     | 0.15                    | 0.603                   | 1.02                  | LSG331M2V--A3035 |
|                          | 330                              | 35 × 30     | 1.21                                     | 0.15                    | 0.603                   | 1.02                  | LSG331M2V--A3530 |
|                          | 390                              | 30 × 40     | 1.29                                     | 0.15                    | 0.510                   | 1.11                  | LSG391M2V--A3040 |
|                          | 470                              | 30 × 45     | 1.48                                     | 0.15                    | 0.423                   | 1.22                  | LSG471M2V--A3045 |
|                          | 470                              | 35 × 40     | 1.63                                     | 0.15                    | 0.423                   | 1.22                  | LSG471M2V--A3540 |
|                          | 560                              | 35 × 40     | 1.69                                     | 0.15                    | 0.355                   | 1.33                  | LSG561M2V--A3540 |
|                          | 560                              | 40 × 30     | 1.63                                     | 0.15                    | 0.355                   | 1.33                  | LSG561M2V--A4030 |
|                          | 680                              | 35 × 35     | 1.52                                     | 0.15                    | 0.293                   | 1.46                  | LSG681M2V--A3535 |
|                          | 680                              | 40 × 35     | 1.58                                     | 0.15                    | 0.293                   | 1.46                  | LSG681M2V--A4035 |
|                          | 820                              | 35 × 50     | 1.86                                     | 0.15                    | 0.243                   | 1.50                  | LSG821M2V--A3550 |
|                          | 820                              | 40 × 50     | 2.01                                     | 0.15                    | 0.243                   | 1.50                  | LSG821M2V--A4050 |
|                          | 1,000                            | 35 × 60     | 2.22                                     | 0.15                    | 0.199                   | 1.50                  | LSG102M2V--A3560 |
|                          | 1,000                            | 40 × 50     | 2.21                                     | 0.15                    | 0.199                   | 1.50                  | LSG102M2V--A4050 |
|                          | 1,200                            | 40 × 55     | 2.52                                     | 0.15                    | 0.166                   | 1.50                  | LSG122M2V--A4055 |
|                          | 1,500                            | 40 × 65     | 3.03                                     | 0.15                    | 0.133                   | 1.50                  | LSG152M2V--A4065 |
| 400                      | 100                              | 22 × 25     | 0.52                                     | 0.15                    | 1.990                   | 0.60                  | LSG101M2G--A2225 |
|                          | 120                              | 22 × 30     | 0.62                                     | 0.15                    | 1.659                   | 0.66                  | LSG121M2G--A2230 |
|                          | 120                              | 25 × 25     | 0.61                                     | 0.15                    | 1.659                   | 0.66                  | LSG121M2G--A2525 |
|                          | 150                              | 22 × 35     | 0.70                                     | 0.15                    | 1.327                   | 0.73                  | LSG151M2G--A2235 |
|                          | 150                              | 25 × 30     | 0.73                                     | 0.15                    | 1.327                   | 0.73                  | LSG151M2G--A2530 |
|                          | 180                              | 22 × 40     | 0.81                                     | 0.15                    | 1.106                   | 0.80                  | LSG181M2G--A2240 |
|                          | 180                              | 25 × 35     | 0.85                                     | 0.15                    | 1.106                   | 0.80                  | LSG181M2G--A2535 |
|                          | 180                              | 30 × 25     | 0.83                                     | 0.15                    | 1.106                   | 0.80                  | LSG181M2G--A3025 |
|                          | 220                              | 22 × 45     | 0.94                                     | 0.15                    | 0.905                   | 0.89                  | LSG221M2G--A2245 |
|                          | 220                              | 25 × 40     | 1.00                                     | 0.15                    | 0.905                   | 0.89                  | LSG221M2G--A2540 |
|                          | 220                              | 30 × 30     | 0.99                                     | 0.15                    | 0.905                   | 0.89                  | LSG221M2G--A3030 |
|                          | 270                              | 22 × 55     | 1.14                                     | 0.15                    | 0.737                   | 0.99                  | LSG271M2G--A2255 |
|                          | 270                              | 25 × 45     | 1.17                                     | 0.15                    | 0.737                   | 0.99                  | LSG271M2G--A2545 |
|                          | 270                              | 30 × 35     | 1.16                                     | 0.15                    | 0.737                   | 0.99                  | LSG271M2G--A3035 |
|                          | 270                              | 35 × 25     | 1.08                                     | 0.15                    | 0.737                   | 0.99                  | LSG271M2G--A3525 |
|                          | 330                              | 25 × 50     | 1.30                                     | 0.15                    | 0.603                   | 1.09                  | LSG331M2G--A2550 |
|                          | 330                              | 30 × 40     | 1.36                                     | 0.15                    | 0.603                   | 1.09                  | LSG331M2G--A3040 |
|                          | 390                              | 30 × 45     | 1.56                                     | 0.15                    | 0.510                   | 1.18                  | LSG391M2G--A3045 |
|                          | 390                              | 35 × 30     | 1.44                                     | 0.15                    | 0.510                   | 1.18                  | LSG391M2G--A3530 |
|                          | 470                              | 30 × 50     | 1.72                                     | 0.15                    | 0.423                   | 1.30                  | LSG471M2G--A3050 |
|                          | 470                              | 35 × 40     | 1.78                                     | 0.15                    | 0.423                   | 1.30                  | LSG471M2G--A3540 |
|                          | 560                              | 30 × 55     | 1.95                                     | 0.15                    | 0.355                   | 1.42                  | LSG561M2G--A3055 |
|                          | 560                              | 35 × 40     | 1.86                                     | 0.15                    | 0.355                   | 1.42                  | LSG561M2G--A3540 |
|                          | 560                              | 40 × 35     | 1.91                                     | 0.15                    | 0.355                   | 1.42                  | LSG561M2G--A4035 |





## Dimension & Permissible Ripple Current

| Working Voltage<br>V. DC | Capacitance<br>120Hz, 20°C<br>μF | φ D×L<br>mm | Ripple Current<br>120 Hz, 105°C<br>A/rms | Tan δ<br>at 120Hz, 20°C | ESR<br>120Hz, 20°C<br>Ω | LC<br>5 minutes<br>mA | Part Number      |
|--------------------------|----------------------------------|-------------|------------------------------------------|-------------------------|-------------------------|-----------------------|------------------|
| 400                      | 680                              | 35 × 50     | 2.25                                     | 0.15                    | 0.293                   | 1.50                  | LSG681M2G--A3550 |
|                          | 680                              | 40 × 40     | 2.22                                     | 0.15                    | 0.293                   | 1.50                  | LSG681M2G--A4040 |
|                          | 820                              | 35 × 55     | 2.58                                     | 0.15                    | 0.243                   | 1.50                  | LSG821M2G--A3555 |
|                          | 820                              | 40 × 50     | 2.67                                     | 0.15                    | 0.243                   | 1.50                  | LSG821M2G--A4050 |
|                          | 1,000                            | 35 × 65     | 2.90                                     | 0.15                    | 0.243                   | 1.50                  | LSG102M2G--A3565 |
|                          | 1,000                            | 40 × 55     | 2.92                                     | 0.15                    | 0.199                   | 1.50                  | LSG102M2G--A4055 |
|                          | 1,200                            | 35 × 75     | 3.39                                     | 0.15                    | 0.199                   | 1.50                  | LSG122M2G--A3575 |
|                          | 1,200                            | 40 × 60     | 3.31                                     | 0.15                    | 0.166                   | 1.50                  | LSG122M2G--A4060 |
|                          | 1,500                            | 45 × 70     | 4.23                                     | 0.15                    | 0.133                   | 1.50                  | LSG152M2G--A4570 |
|                          | 1,800                            | 45 × 80     | 4.92                                     | 0.15                    | 0.111                   | 1.50                  | LSG182M2G--A4580 |
| 420                      | 82                               | 22 × 25     | 0.45                                     | 0.15                    | 2.427                   | 0.56                  | LSG820M2P--A2225 |
|                          | 100                              | 22 × 30     | 0.53                                     | 0.15                    | 1.990                   | 0.61                  | LSG101M2P--A2230 |
|                          | 120                              | 22 × 35     | 0.62                                     | 0.15                    | 1.659                   | 0.67                  | LSG121M2P--A2235 |
|                          | 120                              | 25 × 25     | 0.58                                     | 0.15                    | 1.659                   | 0.67                  | LSG121M2P--A2525 |
|                          | 150                              | 22 × 40     | 0.74                                     | 0.15                    | 1.327                   | 0.75                  | LSG151M2P--A2240 |
|                          | 180                              | 22 × 45     | 0.85                                     | 0.15                    | 1.106                   | 0.82                  | LSG181M2P--A2245 |
|                          | 180                              | 25 × 30     | 0.77                                     | 0.15                    | 1.106                   | 0.82                  | LSG181M2P--A2530 |
|                          | 220                              | 22 × 50     | 1.00                                     | 0.15                    | 0.905                   | 0.91                  | LSG221M2P--A2250 |
|                          | 220                              | 25 × 40     | 0.96                                     | 0.15                    | 0.905                   | 0.91                  | LSG221M2P--A2540 |
|                          | 220                              | 30 × 30     | 0.95                                     | 0.15                    | 0.905                   | 0.91                  | LSG221M2P--A3030 |
|                          | 270                              | 22 × 60     | 1.20                                     | 0.15                    | 0.737                   | 1.01                  | LSG271M2P--A2260 |
|                          | 270                              | 25 × 50     | 1.10                                     | 0.15                    | 0.737                   | 1.01                  | LSG271M2P--A2550 |
|                          | 270                              | 30 × 35     | 1.06                                     | 0.15                    | 0.737                   | 1.01                  | LSG271M2P--A3035 |
|                          | 270                              | 35 × 30     | 1.09                                     | 0.15                    | 0.737                   | 1.01                  | LSG271M2P--A3530 |
|                          | 330                              | 25 × 55     | 1.36                                     | 0.15                    | 0.603                   | 1.12                  | LSG331M2P--A2555 |
|                          | 330                              | 30 × 40     | 1.24                                     | 0.15                    | 0.603                   | 1.12                  | LSG331M2P--A3040 |
|                          | 330                              | 35 × 30     | 1.21                                     | 0.15                    | 0.603                   | 1.12                  | LSG331M2P--A3530 |
|                          | 390                              | 30 × 45     | 1.42                                     | 0.15                    | 0.510                   | 1.21                  | LSG391M2P--A3045 |
|                          | 390                              | 35 × 35     | 1.40                                     | 0.15                    | 0.510                   | 1.21                  | LSG391M2P--A3535 |
|                          | 390                              | 40 × 40     | 1.60                                     | 0.15                    | 0.510                   | 1.21                  | LSG391M2P--A4040 |
|                          | 470                              | 35 × 40     | 1.62                                     | 0.15                    | 0.423                   | 1.33                  | LSG471M2P--A3540 |
|                          | 470                              | 40 × 35     | 1.66                                     | 0.15                    | 0.423                   | 1.33                  | LSG471M2P--A4035 |
|                          | 560                              | 35 × 45     | 1.77                                     | 0.15                    | 0.355                   | 1.45                  | LSG561M2P--A3545 |
|                          | 560                              | 40 × 40     | 1.82                                     | 0.15                    | 0.355                   | 1.45                  | LSG561M2P--A4040 |
|                          | 680                              | 35 × 50     | 2.12                                     | 0.15                    | 0.293                   | 1.50                  | LSG681M2P--A3550 |
|                          | 680                              | 40 × 45     | 2.11                                     | 0.15                    | 0.293                   | 1.50                  | LSG681M2P--A4045 |
|                          | 820                              | 35 × 60     | 2.42                                     | 0.15                    | 0.243                   | 1.50                  | LSG821M2P--A3560 |
|                          | 820                              | 40 × 55     | 2.52                                     | 0.15                    | 0.243                   | 1.50                  | LSG821M2P--A4055 |
|                          | 1,000                            | 35 × 70     | 3.08                                     | 0.15                    | 0.199                   | 1.50                  | LSG102M2P--A3570 |
|                          | 1,000                            | 40 × 60     | 2.88                                     | 0.15                    | 0.199                   | 1.50                  | LSG102M2P--A4060 |
|                          | 1,200                            | 35 × 90     | 3.51                                     | 0.15                    | 0.166                   | 1.50                  | LSG122M2P--A3590 |
|                          | 1,200                            | 40 × 70     | 3.38                                     | 0.15                    | 0.166                   | 1.50                  | LSG122M2P--A4070 |
| 450                      | 82                               | 22 × 25     | 0.45                                     | 0.15                    | 2.427                   | 0.58                  | LSG820M2W--A2225 |
|                          | 100                              | 22 × 30     | 0.53                                     | 0.15                    | 1.990                   | 0.54                  | LSG101M2W--A2230 |
|                          | 100                              | 25 × 25     | 0.51                                     | 0.15                    | 1.990                   | 0.64                  | LSG101M2W--A2525 |
|                          | 120                              | 22 × 35     | 0.62                                     | 0.15                    | 1.659                   | 0.70                  | LSG121M2W--A2235 |
|                          | 150                              | 22 × 40     | 0.74                                     | 0.15                    | 1.327                   | 0.78                  | LSG151M2W--A2240 |
|                          | 150                              | 25 × 30     | 0.70                                     | 0.15                    | 1.327                   | 0.78                  | LSG151M2W--A2530 |
|                          | 150                              | 35 × 25     | 0.83                                     | 0.15                    | 1.327                   | 0.78                  | LSG151M2W--A3525 |
|                          | 180                              | 22 × 45     | 0.88                                     | 0.15                    | 1.106                   | 0.85                  | LSG181M2W--A2245 |
|                          | 180                              | 25 × 35     | 0.82                                     | 0.15                    | 1.106                   | 0.85                  | LSG181M2W--A2535 |
|                          | 180                              | 30 × 25     | 0.80                                     | 0.15                    | 1.106                   | 0.85                  | LSG181M2W--A3025 |
|                          | 220                              | 25 × 40     | 0.96                                     | 0.15                    | 0.905                   | 0.94                  | LSG221M2W--A2540 |
|                          | 220                              | 30 × 30     | 0.95                                     | 0.15                    | 0.905                   | 0.94                  | LSG221M2W--A3030 |
|                          | 270                              | 25 × 50     | 1.21                                     | 0.15                    | 0.737                   | 1.05                  | LSG271M2W--A2550 |
|                          | 270                              | 30 × 35     | 1.12                                     | 0.15                    | 0.737                   | 1.05                  | LSG271M2W--A3035 |
|                          | 330                              | 25 × 55     | 1.35                                     | 0.15                    | 0.603                   | 1.06                  | LSG331M2W--A2555 |
|                          | 330                              | 30 × 40     | 1.31                                     | 0.15                    | 0.603                   | 1.06                  | LSG331M2W--A3040 |
|                          | 330                              | 35 × 30     | 1.27                                     | 0.15                    | 0.603                   | 1.06                  | LSG331M2W--A3530 |
|                          | 390                              | 30 × 45     | 1.49                                     | 0.15                    | 0.510                   | 1.26                  | LSG391M2W--A3045 |
|                          | 390                              | 35 × 35     | 1.47                                     | 0.15                    | 0.510                   | 1.26                  | LSG391M2W--A3535 |
|                          | 390                              | 40 × 30     | 1.51                                     | 0.15                    | 0.510                   | 1.26                  | LSG391M2W--A4040 |

## Dimension & Permissible Ripple Current

| Working Voltage<br>V. DC | Capacitance<br>120Hz, 20°C<br>μF | φ D×L<br>mm | Ripple Current<br>120 Hz, 105°C<br>A/rms | Tan δ<br>at 120Hz, 20°C | ESR<br>120Hz, 20°C<br>Ω | LC<br>5 minutes<br>mA | Part Number      |
|--------------------------|----------------------------------|-------------|------------------------------------------|-------------------------|-------------------------|-----------------------|------------------|
| 450                      | 470                              | 30 × 55     | 1.79                                     | 0.15                    | 0.423                   | 1.38                  | LSG471M2W--A3055 |
|                          | 470                              | 35 × 40     | 1.71                                     | 0.15                    | 0.423                   | 1.38                  | LSG471M2W--A3540 |
|                          | 470                              | 40 × 35     | 1.75                                     | 0.15                    | 0.423                   | 1.38                  | LSG471M2W--A4035 |
|                          | 560                              | 35 × 45     | 1.96                                     | 0.15                    | 0.355                   | 1.50                  | LSG561M2W--A3545 |
|                          | 560                              | 40 × 40     | 2.02                                     | 0.15                    | 0.355                   | 1.50                  | LSG561M2W--A4040 |
|                          | 680                              | 35 × 55     | 2.35                                     | 0.15                    | 0.293                   | 1.50                  | LSG681M2W--A3555 |
|                          | 680                              | 40 × 45     | 2.33                                     | 0.15                    | 0.293                   | 1.50                  | LSG681M2W--A4045 |
|                          | 820                              | 40 × 50     | 2.68                                     | 0.15                    | 0.243                   | 1.50                  | LSG821M2W--A4050 |
|                          | 1,000                            | 40 × 60     | 3.03                                     | 0.15                    | 0.199                   | 1.50                  | LSG102M2W--A4060 |
|                          | 1,200                            | 35 × 90     | 3.68                                     | 0.15                    | 0.166                   | 1.50                  | LSG122M2W--A3590 |
| 500                      | 1,200                            | 40 × 70     | 3.54                                     | 0.15                    | 0.166                   | 1.50                  | LSG122M2W--A4070 |
|                          | 1,500                            | 45 × 80     | 4.49                                     | 0.15                    | 0.133                   | 1.50                  | LSG152M2W--A4580 |
|                          | 82                               | 22 × 30     | 0.75                                     | 0.15                    | 2.427                   | 0.61                  | LSG820M2H--A2230 |
|                          | 82                               | 25 × 30     | 0.81                                     | 0.15                    | 2.427                   | 0.61                  | LSG820M2H--A2530 |
|                          | 100                              | 22 × 40     | 0.94                                     | 0.15                    | 1.990                   | 0.67                  | LSG101M2H--A2240 |
|                          | 100                              | 25 × 40     | 1.00                                     | 0.15                    | 1.990                   | 0.67                  | LSG101M2H--A2540 |
|                          | 120                              | 22 × 50     | 1.14                                     | 0.15                    | 1.659                   | 0.73                  | LSG121M2H--A2250 |
|                          | 120                              | 25 × 50     | 1.22                                     | 0.15                    | 1.659                   | 0.73                  | LSG121M2H--A2550 |
|                          | 150                              | 22 × 50     | 1.27                                     | 0.15                    | 1.327                   | 0.82                  | LSG151M2H--A2250 |
|                          | 150                              | 25 × 55     | 1.42                                     | 0.15                    | 1.327                   | 0.82                  | LSG151M2H--A2555 |
|                          | 180                              | 30 × 35     | 1.42                                     | 0.15                    | 1.106                   | 0.90                  | LSG181M2H--A3035 |
|                          | 220                              | 30 × 35     | 1.57                                     | 0.15                    | 0.905                   | 0.99                  | LSG221M2H--A3035 |
|                          | 220                              | 35 × 40     | 1.74                                     | 0.15                    | 0.905                   | 0.99                  | LSG221M2H--A3540 |
|                          | 270                              | 35 × 45     | 2.02                                     | 0.15                    | 0.737                   | 1.10                  | LSG271M2H--A3545 |
|                          | 330                              | 35 × 50     | 2.45                                     | 0.15                    | 0.603                   | 1.22                  | LSG331M2H--A3550 |
|                          | 470                              | 35 × 60     | 2.62                                     | 0.15                    | 0.423                   | 1.45                  | LSG471M2H--A3560 |
|                          | 680                              | 35 × 70     | 3.38                                     | 0.15                    | 0.293                   | 1.50                  | LSG681M2H--A3570 |
|                          | 820                              | 40 × 70     | 4.00                                     | 0.15                    | 0.243                   | 1.50                  | LSG821M2H--A4070 |
|                          | 1,000                            | 40 × 80     | 4.68                                     | 0.15                    | 0.199                   | 1.50                  | LSG102M2H--A4080 |

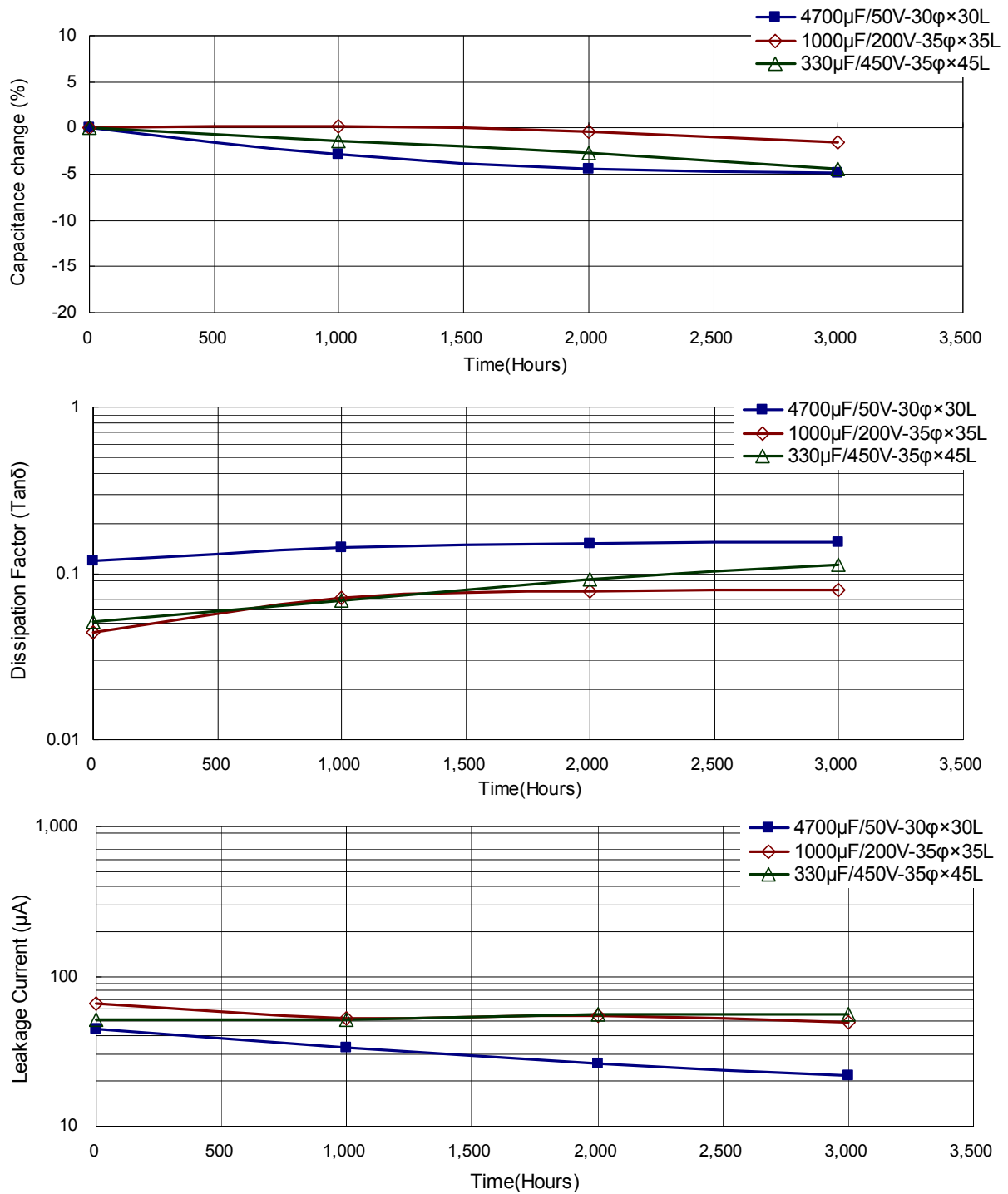
## Part Numbering System

|                                                                                                                                                        |             |                       |               |               |                 |             |                                  |     |                      |                                                                                                                    |    |        |     |    |     |    |                                                                                                                             |      |        |        |     |        |    |                    |                                                                                                                                                                 |       |      |       |      |       |      |       |      |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|---------------|---------------|-----------------|-------------|----------------------------------|-----|----------------------|--------------------------------------------------------------------------------------------------------------------|----|--------|-----|----|-----|----|-----------------------------------------------------------------------------------------------------------------------------|------|--------|--------|-----|--------|----|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|-------|------|-------|------|-------|------|--|
| LSG series                                                                                                                                             | 100μF       | ±20%                  | 400V          | - -           | 4.0±0.5mm       | 22 ϕ ×30L   | Pb-free Terminal<br>+ PET Sleeve |     |                      |                                                                                                                    |    |        |     |    |     |    |                                                                                                                             |      |        |        |     |        |    |                    |                                                                                                                                                                 |       |      |       |      |       |      |       |      |  |
| <u>LSG</u>                                                                                                                                             | <u>101</u>  | <u>M</u>              | <u>2G</u>     | - -           | <u>A</u>        | <u>2230</u> |                                  |     |                      |                                                                                                                    |    |        |     |    |     |    |                                                                                                                             |      |        |        |     |        |    |                    |                                                                                                                                                                 |       |      |       |      |       |      |       |      |  |
| Series name                                                                                                                                            | Capacitance | Capacitance tolerance | Rated voltage | Terminal type | Terminal length | Case size   | Terminal and Sleeve Type         |     |                      |                                                                                                                    |    |        |     |    |     |    |                                                                                                                             |      |        |        |     |        |    |                    |                                                                                                                                                                 |       |      |       |      |       |      |       |      |  |
| Example:                                                                                                                                               |             |                       | Example:      | Example:      |                 | Example:    |                                  |     |                      |                                                                                                                    |    |        |     |    |     |    |                                                                                                                             |      |        |        |     |        |    |                    |                                                                                                                                                                 |       |      |       |      |       |      |       |      |  |
| <table><tr><td>Cap.</td><td>Symbol</td></tr><tr><td>56</td><td>560</td></tr><tr><td>220</td><td>221</td></tr><tr><td>470</td><td>471</td></tr></table> | Cap.        | Symbol                | 56            | 560           | 220             | 221         | 470                              | 471 | M = ±20%<br>K = ±10% | <table><tr><td>WV</td><td>Symbol</td></tr><tr><td>400</td><td>2G</td></tr><tr><td>450</td><td>2W</td></tr></table> | WV | Symbol | 400 | 2G | 450 | 2W | <table><tr><td>Type</td><td>Symbol</td></tr><tr><td>2 pins</td><td>- -</td></tr><tr><td>5 pins</td><td>L5</td></tr></table> | Type | Symbol | 2 pins | - - | 5 pins | L5 | “-”:<br>6.3±1.0 mm | <table><tr><td>ϕ D×L</td><td>Code</td></tr><tr><td>22×30</td><td>2230</td></tr><tr><td>25×25</td><td>2525</td></tr><tr><td>30×40</td><td>3040</td></tr></table> | ϕ D×L | Code | 22×30 | 2230 | 25×25 | 2525 | 30×40 | 3040 |  |
| Cap.                                                                                                                                                   | Symbol      |                       |               |               |                 |             |                                  |     |                      |                                                                                                                    |    |        |     |    |     |    |                                                                                                                             |      |        |        |     |        |    |                    |                                                                                                                                                                 |       |      |       |      |       |      |       |      |  |
| 56                                                                                                                                                     | 560         |                       |               |               |                 |             |                                  |     |                      |                                                                                                                    |    |        |     |    |     |    |                                                                                                                             |      |        |        |     |        |    |                    |                                                                                                                                                                 |       |      |       |      |       |      |       |      |  |
| 220                                                                                                                                                    | 221         |                       |               |               |                 |             |                                  |     |                      |                                                                                                                    |    |        |     |    |     |    |                                                                                                                             |      |        |        |     |        |    |                    |                                                                                                                                                                 |       |      |       |      |       |      |       |      |  |
| 470                                                                                                                                                    | 471         |                       |               |               |                 |             |                                  |     |                      |                                                                                                                    |    |        |     |    |     |    |                                                                                                                             |      |        |        |     |        |    |                    |                                                                                                                                                                 |       |      |       |      |       |      |       |      |  |
| WV                                                                                                                                                     | Symbol      |                       |               |               |                 |             |                                  |     |                      |                                                                                                                    |    |        |     |    |     |    |                                                                                                                             |      |        |        |     |        |    |                    |                                                                                                                                                                 |       |      |       |      |       |      |       |      |  |
| 400                                                                                                                                                    | 2G          |                       |               |               |                 |             |                                  |     |                      |                                                                                                                    |    |        |     |    |     |    |                                                                                                                             |      |        |        |     |        |    |                    |                                                                                                                                                                 |       |      |       |      |       |      |       |      |  |
| 450                                                                                                                                                    | 2W          |                       |               |               |                 |             |                                  |     |                      |                                                                                                                    |    |        |     |    |     |    |                                                                                                                             |      |        |        |     |        |    |                    |                                                                                                                                                                 |       |      |       |      |       |      |       |      |  |
| Type                                                                                                                                                   | Symbol      |                       |               |               |                 |             |                                  |     |                      |                                                                                                                    |    |        |     |    |     |    |                                                                                                                             |      |        |        |     |        |    |                    |                                                                                                                                                                 |       |      |       |      |       |      |       |      |  |
| 2 pins                                                                                                                                                 | - -         |                       |               |               |                 |             |                                  |     |                      |                                                                                                                    |    |        |     |    |     |    |                                                                                                                             |      |        |        |     |        |    |                    |                                                                                                                                                                 |       |      |       |      |       |      |       |      |  |
| 5 pins                                                                                                                                                 | L5          |                       |               |               |                 |             |                                  |     |                      |                                                                                                                    |    |        |     |    |     |    |                                                                                                                             |      |        |        |     |        |    |                    |                                                                                                                                                                 |       |      |       |      |       |      |       |      |  |
| ϕ D×L                                                                                                                                                  | Code        |                       |               |               |                 |             |                                  |     |                      |                                                                                                                    |    |        |     |    |     |    |                                                                                                                             |      |        |        |     |        |    |                    |                                                                                                                                                                 |       |      |       |      |       |      |       |      |  |
| 22×30                                                                                                                                                  | 2230        |                       |               |               |                 |             |                                  |     |                      |                                                                                                                    |    |        |     |    |     |    |                                                                                                                             |      |        |        |     |        |    |                    |                                                                                                                                                                 |       |      |       |      |       |      |       |      |  |
| 25×25                                                                                                                                                  | 2525        |                       |               |               |                 |             |                                  |     |                      |                                                                                                                    |    |        |     |    |     |    |                                                                                                                             |      |        |        |     |        |    |                    |                                                                                                                                                                 |       |      |       |      |       |      |       |      |  |
| 30×40                                                                                                                                                  | 3040        |                       |               |               |                 |             |                                  |     |                      |                                                                                                                    |    |        |     |    |     |    |                                                                                                                             |      |        |        |     |        |    |                    |                                                                                                                                                                 |       |      |       |      |       |      |       |      |  |

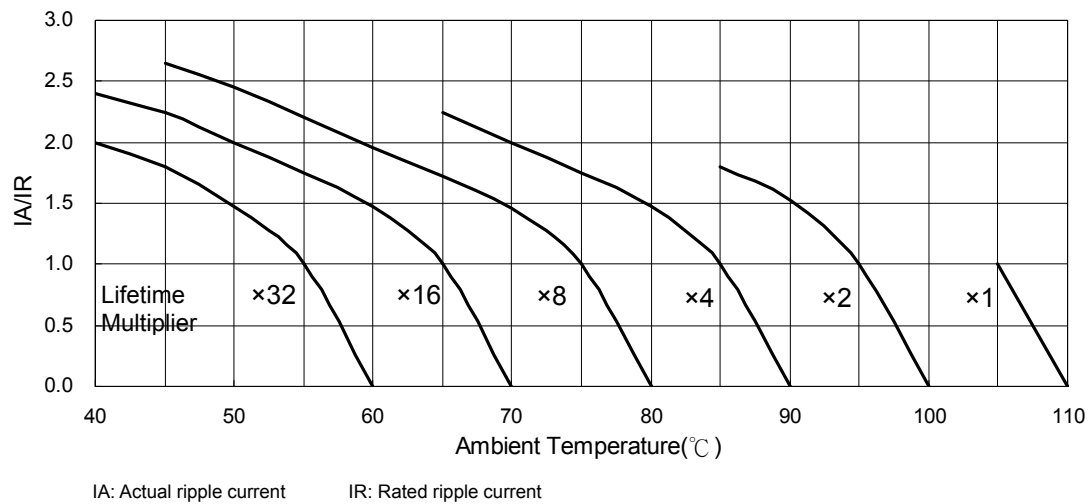
Note: For more details, please refer to “Part Numbering System (Snap-in Type)” on page 13.



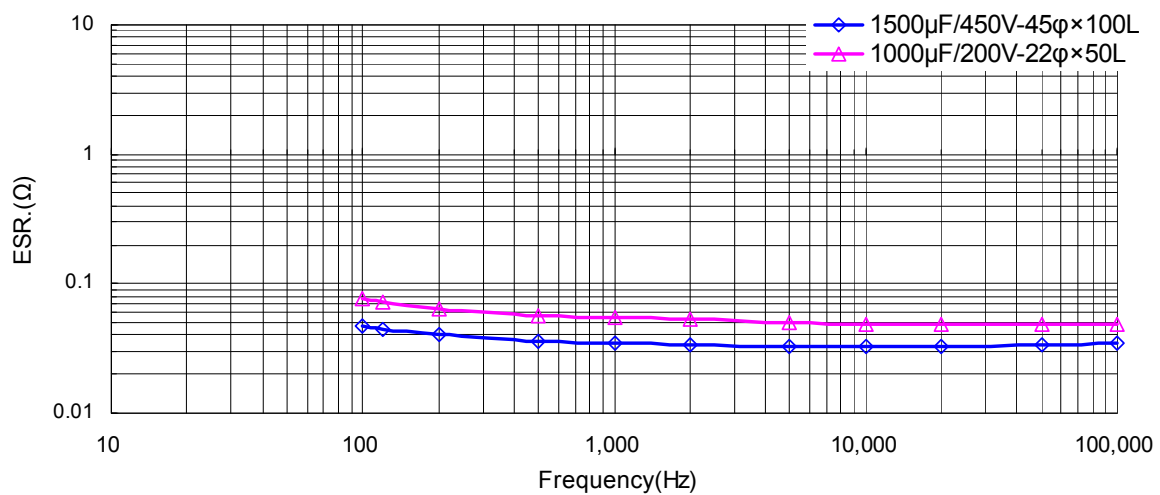
## Typical Endurance Curves



## Useful Life Chart



## ESR-Frequency Characteristics



## ESR-Temperature Characteristics

