



## LSG Series

### Features

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

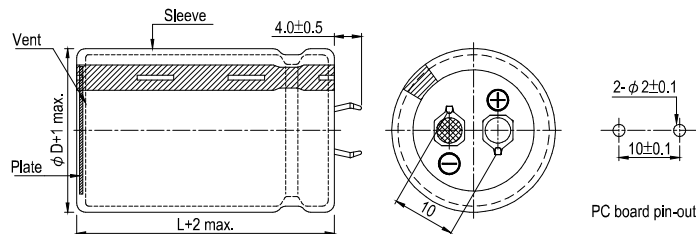


### Specifications

| Items  | Performance  |                                   |      |         |           |      |      |                |      |      |      |      |      |      |      |      |  |
|--|--|-----------------------------------|------|---------|-----------|------|------|----------------|------|------|------|------|------|------|------|------|--|
|  | 16 ~ 100V  |                                   |      |         |           |      |      | 160 ~ 500V     |      |      |      |      |      |      |      |      |  |
| Category Temperature Range   | -40°C ~ +105°C   |                                   |      |         |           |      |      | -25°C ~ +105°C |      |      |      |      |      |      |      |      |  |
| Capacitance Tolerance  | ±20% (at 120 Hz, 20°C)   |                                   |      |         |           |      |      |                |      |      |      |      |      |      |      |      |  |
| Leakage Current (at 20°C)  | I = $3\sqrt{CV}$ or 1.5 mA whichever is smaller (after 5 minutes)<br>Where, C = rated capacitance in µF, V = rated DC Rated Voltage in V |                                   |      |         |           |      |      |                |      |      |      |      |      |      |      |      |  |
| Tanδ (at 120 Hz, 20°C)   | 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 120 Hz)  | 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°C)/Z(+20°C)                 | 4    | 3       | 3         | 2    | 2    | 2              | 4    | 4    | 4    | 4    | 8    | 8    | 8    | 8    |  |
|  |  | Z(-40°C)/Z(+20°C)                 | 15   | 10      | 8         | 6    | 5    | 5              | 4    | -    | -    | -    | -    | -    | -    | -    |  |
| Endurance  | Test Time  | 2,000 Hrs                         |      |         |           |      |      |                |      |      |      |      |      |      |      |      |  |
|  | Capacitance Change   | Within ±20% of initial value      |      |         |           |      |      |                |      |      |      |      |      |      |      |      |  |
|  | Tanδ   | Less than 200% of specified value |      |         |           |      |      |                |      |      |      |      |      |      |      |      |  |
|  | Leakage Current  | Within specified value            |      |         |           |      |      |                |      |      |      |      |      |      |      |      |  |
| * The above specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied with rated ripple current for 2,000 hours at 105°C.   |  |                                   |      |         |           |      |      |                |      |      |      |      |      |      |      |      |  |
| Shelf Life Test  | 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°C after exposing them for 1,000 hours at 105°C 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 and Frequency Multipliers   | Case size  | Freq. (Hz)                        |      | 50 / 60 | 100 / 120 | 500  | 1k   | 10k up         |      |      |      |      |      |      |      |      |  |
|  |  | Rated Volt. (V)                   |      |         |           |      |      |                |      |      |      |      |      |      |      |      |  |
|  | Length ≤ 55L   | ≤ 100                             |      | 0.92    | 1.00      | 1.13 | 1.19 | 1.20           |      |      |      |      |      |      |      |      |  |
|  |  | 160 ~ 250                         |      | 0.81    | 1.00      | 1.32 | 1.45 | 1.50           |      |      |      |      |      |      |      |      |  |
| Length ≥ 60L   | 350 ≤  |                                   | 0.77 | 1.00    | 1.30      | 1.41 | 1.43 |                |      |      |      |      |      |      |      |      |  |
|  | 160 ~ 450  |                                   | 0.88 | 1.00    | 1.20      | 1.25 | 1.40 |                |      |      |      |      |      |      |      |      |  |
| Failure percentage   | When the failure percentage / failure rate is required, please contact with us for further discussion.                                   |                                   |      |         |           |      |      |                |      |      |      |      |      |      |      |      |  |
| Failure rate   |  |                                   |      |         |           |      |      |                |      |      |      |      |      |      |      |      |  |

### Diagram of Dimensions

Unit: mm





## Dimension and Permissible Ripple Current

| Rated Voltage<br>$V_{DC}$ | Capacitance<br>120 Hz, 20°C<br>$\mu F$ | $\phi D \times L$<br>mm | Ripple Current<br>120 Hz, 105°C<br>A/rms | Tan $\delta$<br>at 120 Hz, 20°C | ESR<br>120 Hz, 20°C<br>$\Omega$ | 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 and Permissible Ripple Current

| Rated Voltage<br>V <sub>DC</sub> | Capacitance<br>120 Hz, 20°C<br>μF | φ D×L<br>mm | Ripple Current<br>120 Hz, 105°C<br>A/rms | Tan δ<br>at 120 Hz, 20°C | ESR<br>120 Hz, 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 and Permissible Ripple Current

| Rated Voltage<br>V <sub>DC</sub> | Capacitance<br>120 Hz, 20°C<br>μF | φ D×L<br>mm | Ripple Current<br>120 Hz, 105°C<br>A/rms | Tan δ<br>at 120 Hz, 20°C | ESR<br>120 Hz, 20°C<br>Ω | LC<br>5 minutes<br>mA | Part Number      |
|----------------------------------|-----------------------------------|-------------|--|--------------------------|--------------------------|-----------------------|------------------|
| <b>63</b>                        | 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 |
| <b>80</b>                        | 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      |                  |
| <b>100</b>                       | 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      |                  |
| <b>160</b>                       | 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 and Permissible Ripple Current

| Rated Voltage<br>V <sub>DC</sub> | Capacitance<br>120 Hz, 20°C<br>μF | φ D×L<br>mm | Ripple Current<br>120 Hz, 105°C<br>A/rms | Tan δ<br>at 120 Hz, 20°C | ESR<br>120 Hz, 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             |
| 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 and Permissible Ripple Current

| Rated Voltage<br>V <sub>DC</sub> | Capacitance<br>120 Hz, 20°C<br>μF | φ D×L<br>mm | Ripple Current<br>120 Hz, 105°C<br>A/rms | Tan δ<br>at 120 Hz, 20°C | ESR<br>120 Hz, 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                     | 1.990                    | 0.46                  | LSG101M2V--A2225 |
|                                  | 120                               | 22 × 30     | 0.69                                     | 0.15                     | 1.659                    | 0.56                  | LSG121M2V--A2230 |
|                                  | 120                               | 25 × 25     | 0.69                                     | 0.15                     | 1.659                    | 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 and Permissible Ripple Current

| Rated Voltage<br>V <sub>DC</sub> | Capacitance<br>120 Hz, 20°C<br>μF | φ D×L<br>mm | Ripple Current<br>120 Hz, 105°C<br>A/rms | Tan δ<br>at 120 Hz, 20°C | ESR<br>120 Hz, 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                    | 0.64                  | 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                    | 1.16                  | LSG331M2W--A2555 |
|                                  | 330                               | 30 × 40     | 1.31                                     | 0.15                     | 0.603                    | 1.16                  | LSG331M2W--A3040 |
|                                  | 330                               | 35 × 30     | 1.27                                     | 0.15                     | 0.603                    | 1.16                  | 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--A4030 |



## Dimension and Permissible Ripple Current

| Rated Voltage<br>V <sub>DC</sub> | Capacitance<br>120 Hz, 20°C<br>μF | φ D×L<br>mm | Ripple Current<br>120 Hz, 105°C<br>A/rms | Tan δ<br>at 120 Hz, 20°C | ESR<br>120 Hz, 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                              | 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 |

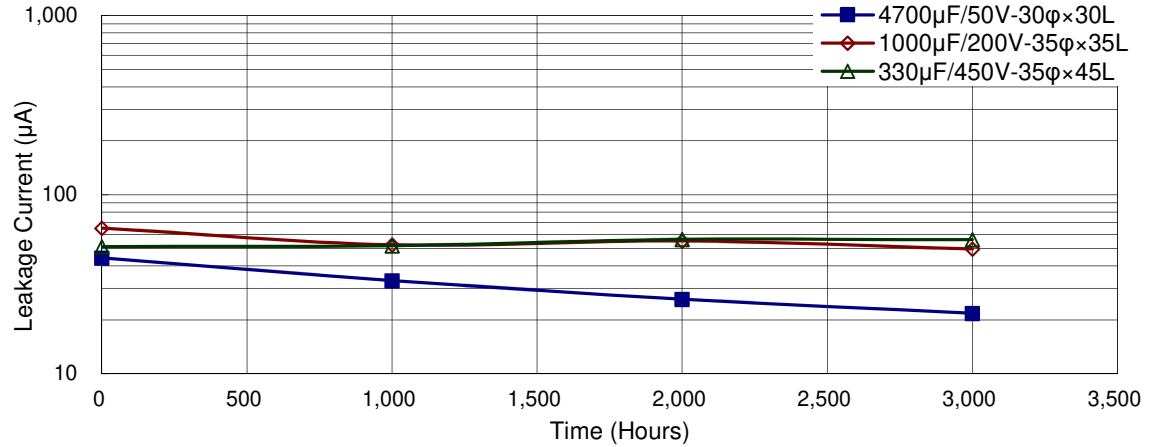
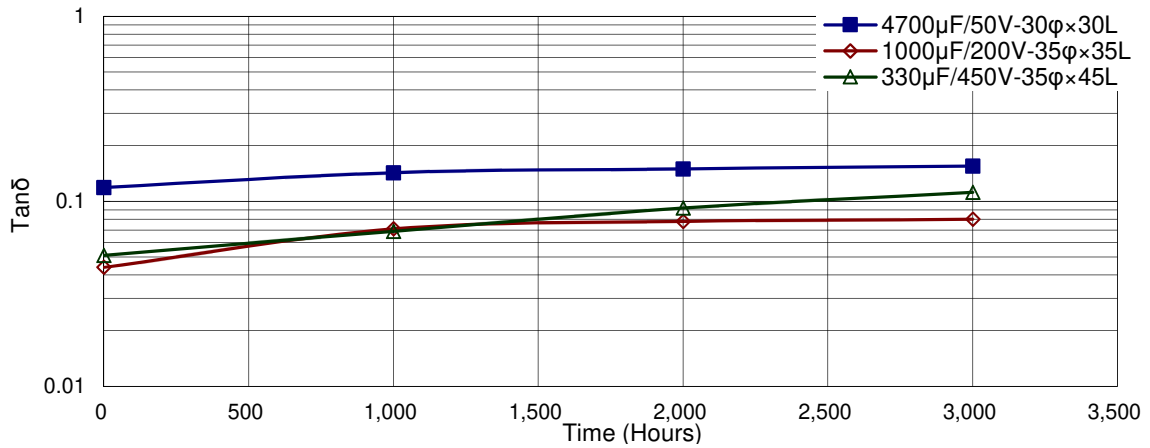
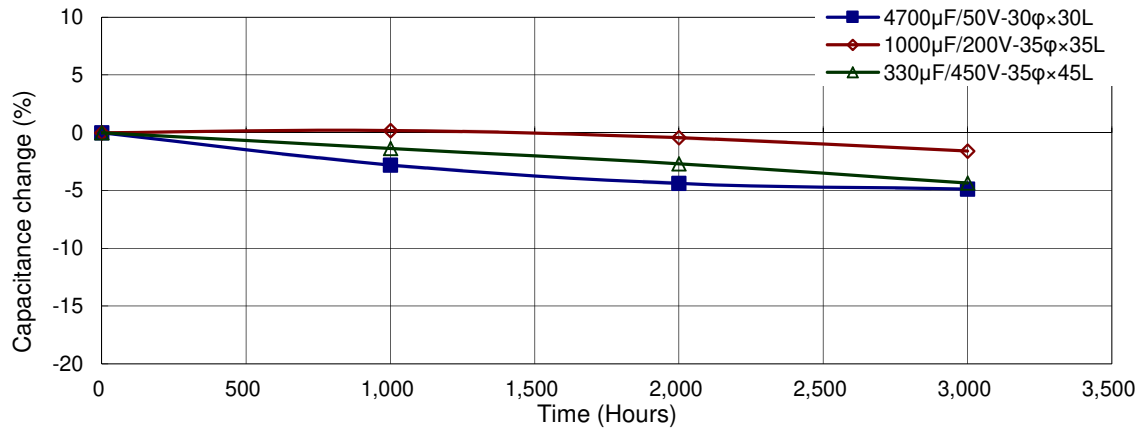
## Part Numbering System

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

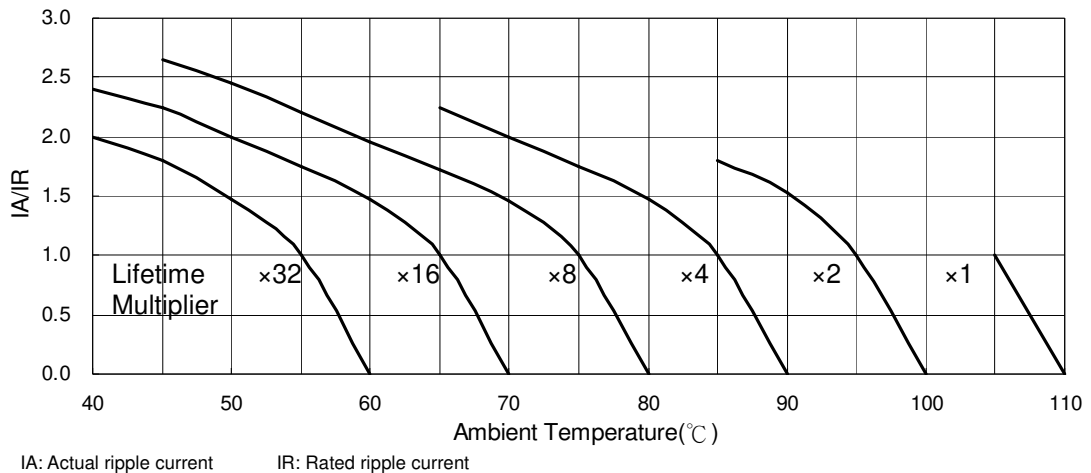
Note: For more details, please refer to "Part Numbering System (Snap-in Type)" on page 16.



## Typical Endurance Curves



## Useful Life Chart



IA: Actual ripple current      IR: Rated ripple current

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[MAL229967821E3](#) [ALC70A821EF400](#) [ALC70A102EH400](#) [MAL205658102E3](#) [MAL205855103E3](#) [MAL209436471E3](#) [MAL215848103E3](#)  
[MAL225756221E3](#)