

## LSG Series

### Features

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



Sleeve & Marking Color: Brown & White

### Specifications

| Items                                      | Performance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                           |               |           |                    |                              |      |                                   |                 |                        |           |      |      |        |              |           |      |      |                                   |      |      |           |      |      |      |      |      |           |      |      |      |      |      |              |                                   |      |      |      |      |      |   |   |   |   |   |   |   |   |   |   |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|---------------|-----------|--------------------|------------------------------|------|-----------------------------------|-----------------|------------------------|-----------|------|------|--------|--------------|-----------|------|------|-----------------------------------|------|------|-----------|------|------|------|------|------|-----------|------|------|------|------|------|--------------|-----------------------------------|------|------|------|------|------|---|---|---|---|---|---|---|---|---|---|
|                                            | Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 16 ~ 100V                                                 | 160 ~ 500V    |           |                    |                              |      |                                   |                 |                        |           |      |      |        |              |           |      |      |                                   |      |      |           |      |      |      |      |      |           |      |      |      |      |      |              |                                   |      |      |      |      |      |   |   |   |   |   |   |   |   |   |   |
| Temperature Range                          | -40°C ~ +105°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -25°C ~ +105°C                                            |               |           |                    |                              |      |                                   |                 |                        |           |      |      |        |              |           |      |      |                                   |      |      |           |      |      |      |      |      |           |      |      |      |      |      |              |                                   |      |      |      |      |      |   |   |   |   |   |   |   |   |   |   |
| Capacitance Tolerance                      | ±20% (at 120Hz, 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 working voltage in V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                           |               |           |                    |                              |      |                                   |                 |                        |           |      |      |        |              |           |      |      |                                   |      |      |           |      |      |      |      |      |           |      |      |      |      |      |              |                                   |      |      |      |      |      |   |   |   |   |   |   |   |   |   |   |
| Tanδ (at 120Hz, 20°C)                      | <table border="1"> <thead> <tr> <th>Rated Voltage</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>80</th> <th>100</th> <th>160</th> <th>200</th> <th>250</th> <th>350</th> <th>400</th> <th>420</th> <th>450</th> <th>500</th> </tr> </thead> <tbody> <tr> <td>Tanδ (max)</td> <td>0.50</td> <td>0.45</td> <td>0.40</td> <td>0.35</td> <td>0.30</td> <td>0.25</td> <td>0.20</td> <td>0.15</td> <td>0.15</td> <td>0.15</td> <td>0.15</td> <td>0.15</td> <td>0.15</td> <td>0.15</td> <td>0.15</td> </tr> </tbody> </table>                                                                                                                                                                                                                                                                                     |                                                           | Rated Voltage | 16        | 25                 | 35                           | 50   | 63                                | 80              | 100                    | 160       | 200  | 250  | 350    | 400          | 420       | 450  | 500  | Tanδ (max)                        | 0.50 | 0.45 | 0.40      | 0.35 | 0.30 | 0.25 | 0.20 | 0.15 | 0.15      | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15         |                                   |      |      |      |      |      |   |   |   |   |   |   |   |   |   |   |
| Rated Voltage                              | 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 25                                                        | 35            | 50        | 63                 | 80                           | 100  | 160                               | 200             | 250                    | 350       | 400  | 420  | 450    | 500          |           |      |      |                                   |      |      |           |      |      |      |      |      |           |      |      |      |      |      |              |                                   |      |      |      |      |      |   |   |   |   |   |   |   |   |   |   |
| Tanδ (max)                                 | 0.50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.45                                                      | 0.40          | 0.35      | 0.30               | 0.25                         | 0.20 | 0.15                              | 0.15            | 0.15                   | 0.15      | 0.15 | 0.15 | 0.15   | 0.15         |           |      |      |                                   |      |      |           |      |      |      |      |      |           |      |      |      |      |      |              |                                   |      |      |      |      |      |   |   |   |   |   |   |   |   |   |   |
| Low Temperature Characteristics (at 120Hz) | <p>Impedance ratio shall not exceed the values given in the table below.</p> <table border="1"> <thead> <tr> <th>Rated Voltage</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>80</th> <th>100</th> <th>160</th> <th>200</th> <th>250</th> <th>350</th> <th>400</th> <th>420</th> <th>450</th> <th>500</th> </tr> </thead> <tbody> <tr> <td>Impedance Ratio Z(-25°C)/Z(+20°C)</td> <td>4</td> <td>3</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> <td>8</td> <td>8</td> <td>8</td> <td>8</td> <td>8</td> </tr> <tr> <td>Impedance Ratio Z(-40°C)/Z(+20°C)</td> <td>15</td> <td>10</td> <td>8</td> <td>6</td> <td>5</td> <td>5</td> <td>4</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table> |                                                           | 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    | 8            | Impedance Ratio Z(-40°C)/Z(+20°C) | 15   | 10   | 8    | 6    | 5    | 5 | 4 | - | - | - | - | - | - | - | - |
| 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      | 8            |           |      |      |                                   |      |      |           |      |      |      |      |      |           |      |      |      |      |      |              |                                   |      |      |      |      |      |   |   |   |   |   |   |   |   |   |   |
| Impedance Ratio Z(-40°C)/Z(+20°C)          | 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 10                                                        | 8             | 6         | 5                  | 5                            | 4    | -                                 | -               | -                      | -         | -    | -    | -      | -            |           |      |      |                                   |      |      |           |      |      |      |      |      |           |      |      |      |      |      |              |                                   |      |      |      |      |      |   |   |   |   |   |   |   |   |   |   |
| Endurance                                  | <table border="1"> <thead> <tr> <th>Test Time</th> <th>2,000 Hrs</th> </tr> </thead> <tbody> <tr> <td>Capacitance Change</td> <td>Within ±20% of initial value</td> </tr> <tr> <td>Tanδ</td> <td>Less than 200% of specified value</td> </tr> <tr> <td>Leakage Current</td> <td>Within specified value</td> </tr> </tbody> </table> <p>* 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.</p>                                                                                                                                                                                                                                                                                                             |                                                           | Test Time     | 2,000 Hrs | Capacitance Change | Within ±20% of initial value | Tanδ | Less than 200% of specified value | Leakage Current | Within specified value |           |      |      |        |              |           |      |      |                                   |      |      |           |      |      |      |      |      |           |      |      |      |      |      |              |                                   |      |      |      |      |      |   |   |   |   |   |   |   |   |   |   |
| Test Time                                  | 2,000 Hrs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                           |               |           |                    |                              |      |                                   |                 |                        |           |      |      |        |              |           |      |      |                                   |      |      |           |      |      |      |      |      |           |      |      |      |      |      |              |                                   |      |      |      |      |      |   |   |   |   |   |   |   |   |   |   |
| Capacitance Change                         | Within ±20% of initial value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                           |               |           |                    |                              |      |                                   |                 |                        |           |      |      |        |              |           |      |      |                                   |      |      |           |      |      |      |      |      |           |      |      |      |      |      |              |                                   |      |      |      |      |      |   |   |   |   |   |   |   |   |   |   |
| Tanδ                                       | Less than 200% of specified value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                           |               |           |                    |                              |      |                                   |                 |                        |           |      |      |        |              |           |      |      |                                   |      |      |           |      |      |      |      |      |           |      |      |      |      |      |              |                                   |      |      |      |      |      |   |   |   |   |   |   |   |   |   |   |
| Leakage Current                            | Within specified value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                           |               |           |                    |                              |      |                                   |                 |                        |           |      |      |        |              |           |      |      |                                   |      |      |           |      |      |      |      |      |           |      |      |      |      |      |              |                                   |      |      |      |      |      |   |   |   |   |   |   |   |   |   |   |
| Shelf Life Test                            | <table border="1"> <thead> <tr> <th>Test Time</th> <th>1,000 Hrs</th> </tr> </thead> <tbody> <tr> <td>Capacitance Change</td> <td>Within ±20% of initial value</td> </tr> <tr> <td>Tanδ</td> <td>Less than 150% of specified value</td> </tr> <tr> <td>Leakage Current</td> <td>Within specified value</td> </tr> </tbody> </table> <p>* 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).</p>                                                                                                                                                                                                                 |                                                           | Test Time     | 1,000 Hrs | Capacitance Change | Within ±20% of initial value | Tanδ | Less than 150% of specified value | Leakage Current | Within specified value |           |      |      |        |              |           |      |      |                                   |      |      |           |      |      |      |      |      |           |      |      |      |      |      |              |                                   |      |      |      |      |      |   |   |   |   |   |   |   |   |   |   |
| Test Time                                  | 1,000 Hrs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                           |               |           |                    |                              |      |                                   |                 |                        |           |      |      |        |              |           |      |      |                                   |      |      |           |      |      |      |      |      |           |      |      |      |      |      |              |                                   |      |      |      |      |      |   |   |   |   |   |   |   |   |   |   |
| Capacitance Change                         | Within ±20% of initial value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                           |               |           |                    |                              |      |                                   |                 |                        |           |      |      |        |              |           |      |      |                                   |      |      |           |      |      |      |      |      |           |      |      |      |      |      |              |                                   |      |      |      |      |      |   |   |   |   |   |   |   |   |   |   |
| Tanδ                                       | Less than 150% of specified value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                           |               |           |                    |                              |      |                                   |                 |                        |           |      |      |        |              |           |      |      |                                   |      |      |           |      |      |      |      |      |           |      |      |      |      |      |              |                                   |      |      |      |      |      |   |   |   |   |   |   |   |   |   |   |
| Leakage Current                            | Within specified value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                           |               |           |                    |                              |      |                                   |                 |                        |           |      |      |        |              |           |      |      |                                   |      |      |           |      |      |      |      |      |           |      |      |      |      |      |              |                                   |      |      |      |      |      |   |   |   |   |   |   |   |   |   |   |
| Ripple Current & Frequency Multipliers     | <table border="1"> <thead> <tr> <th rowspan="2">Case size</th> <th rowspan="2">W. V.(V)</th> <th colspan="5">Freq.(Hz)</th> </tr> <tr> <th>50 / 60</th> <th>100 / 120</th> <th>500</th> <th>1k</th> <th>10k up</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Length ≤ 55L</td> <td>Under 100</td> <td>0.92</td> <td>1.00</td> <td>1.13</td> <td>1.19</td> <td>1.20</td> </tr> <tr> <td>160 ~ 250</td> <td>0.81</td> <td>1.00</td> <td>1.32</td> <td>1.45</td> <td>1.50</td> </tr> <tr> <td>350 to up</td> <td>0.77</td> <td>1.00</td> <td>1.30</td> <td>1.41</td> <td>1.43</td> </tr> <tr> <td>Length ≥ 60L</td> <td>160 ~ 450</td> <td>0.88</td> <td>1.00</td> <td>1.20</td> <td>1.25</td> <td>1.40</td> </tr> </tbody> </table>                                                                                              |                                                           | Case size     | W. V.(V)  | Freq.(Hz)          |                              |      |                                   |                 | 50 / 60                | 100 / 120 | 500  | 1k   | 10k up | Length ≤ 55L | Under 100 | 0.92 | 1.00 | 1.13                              | 1.19 | 1.20 | 160 ~ 250 | 0.81 | 1.00 | 1.32 | 1.45 | 1.50 | 350 to up | 0.77 | 1.00 | 1.30 | 1.41 | 1.43 | Length ≥ 60L | 160 ~ 450                         | 0.88 | 1.00 | 1.20 | 1.25 | 1.40 |   |   |   |   |   |   |   |   |   |   |
| Case size                                  | W. V.(V)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Freq.(Hz)                                                 |               |           |                    |                              |      |                                   |                 |                        |           |      |      |        |              |           |      |      |                                   |      |      |           |      |      |      |      |      |           |      |      |      |      |      |              |                                   |      |      |      |      |      |   |   |   |   |   |   |   |   |   |   |
|                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 50 / 60                                                   | 100 / 120     | 500       | 1k                 | 10k up                       |      |                                   |                 |                        |           |      |      |        |              |           |      |      |                                   |      |      |           |      |      |      |      |      |           |      |      |      |      |      |              |                                   |      |      |      |      |      |   |   |   |   |   |   |   |   |   |   |
| Length ≤ 55L                               | Under 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.92                                                      | 1.00          | 1.13      | 1.19               | 1.20                         |      |                                   |                 |                        |           |      |      |        |              |           |      |      |                                   |      |      |           |      |      |      |      |      |           |      |      |      |      |      |              |                                   |      |      |      |      |      |   |   |   |   |   |   |   |   |   |   |
|                                            | 160 ~ 250                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.81                                                      | 1.00          | 1.32      | 1.45               | 1.50                         |      |                                   |                 |                        |           |      |      |        |              |           |      |      |                                   |      |      |           |      |      |      |      |      |           |      |      |      |      |      |              |                                   |      |      |      |      |      |   |   |   |   |   |   |   |   |   |   |
|                                            | 350 to up                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.77                                                      | 1.00          | 1.30      | 1.41               | 1.43                         |      |                                   |                 |                        |           |      |      |        |              |           |      |      |                                   |      |      |           |      |      |      |      |      |           |      |      |      |      |      |              |                                   |      |      |      |      |      |   |   |   |   |   |   |   |   |   |   |
| Length ≥ 60L                               | 160 ~ 450                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.88                                                      | 1.00          | 1.20      | 1.25               | 1.40                         |      |                                   |                 |                        |           |      |      |        |              |           |      |      |                                   |      |      |           |      |      |      |      |      |           |      |      |      |      |      |              |                                   |      |      |      |      |      |   |   |   |   |   |   |   |   |   |   |
| Failure percentage                         | ≤ 3 % (During useful life)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                           |               |           |                    |                              |      |                                   |                 |                        |           |      |      |        |              |           |      |      |                                   |      |      |           |      |      |      |      |      |           |      |      |      |      |      |              |                                   |      |      |      |      |      |   |   |   |   |   |   |   |   |   |   |
| Failure rate                               | Rated Voltage ≤ 100V DC: ≤ 40 fit (40 10 <sup>9</sup> /h)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Rated voltage ≥ 160V DC: ≤ 70 fit (70 10 <sup>9</sup> /h) |               |           |                    |                              |      |                                   |                 |                        |           |      |      |        |              |           |      |      |                                   |      |      |           |      |      |      |      |      |           |      |      |      |      |      |              |                                   |      |      |      |      |      |   |   |   |   |   |   |   |   |   |   |

### Diagram of Dimensions

Unit: mm



## Dimension & Permissible Ripple Current

| Working Voltage<br>V. DC | Capacitance<br>120Hz, 20°C<br>μF | φ D×L<br>mm | Ripple Current<br>120 Hz, 105°C<br>A/rms | Tan δ<br>at 120Hz, 20°C | ESR<br>120Hz, 20°C<br>Ω | LC<br>5 minutes<br>mA | Part Number      |
|--------------------------|----------------------------------|-------------|------------------------------------------|-------------------------|-------------------------|-----------------------|------------------|
| <b>16</b>                | 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      |                  |
| <b>25</b>                | 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      |                  |
| <b>35</b>                | 3,300                            | 22 × 25     | 1.31                                     | 0.40                    | 0.161                   | 1.02                  | LSG332M1V--A2225 |
|                          | 3,900                            | 22 × 30     | 1.54                                     | 0.40                    | 0.136                   | 1.11                  | LSG392M1V--A2230 |
|                          | 4,700                            | 22 × 25     | 1.63                                     | 0.40                    | 0.113                   | 1.22                  | LSG472M1V--A2225 |
|                          | 4,700                            | 25 × 25     | 1.70                                     | 0.40                    | 0.113                   | 1.22                  | LSG472M1V--A2525 |
|                          | 5,600                            | 22 × 25     | 1.63                                     | 0.40                    | 0.095                   | 1.33                  | LSG562M1V--A2225 |
|                          | 5,600                            | 25 × 25     | 1.77                                     | 0.40                    | 0.095                   | 1.33                  | LSG562M1V--A2525 |
|                          | 5,600                            | 30 × 25     | 1.99                                     | 0.40                    | 0.095                   | 1.33                  | LSG562M1V--A3025 |
|                          | 6,800                            | 22 × 30     | 1.86                                     | 0.40                    | 0.078                   | 1.46                  | LSG682M1V--A2230 |
|                          | 6,800                            | 25 × 30     | 2.04                                     | 0.40                    | 0.078                   | 1.46                  | LSG682M1V--A2530 |
|                          | 6,800                            | 30 × 30     | 2.24                                     | 0.40                    | 0.078                   | 1.46                  | LSG682M1V--A3030 |
|                          | 8,200                            | 22 × 35     | 2.10                                     | 0.40                    | 0.065                   | 1.50                  | LSG822M1V--A2235 |
|                          | 8,200                            | 25 × 35     | 2.60                                     | 0.40                    | 0.065                   | 1.50                  | LSG822M1V--A2535 |
|                          | 8,200                            | 30 × 25     | 2.49                                     | 0.40                    | 0.065                   | 1.50                  | LSG822M1V--A3025 |
|                          | 8,200                            | 35 × 25     | 2.69                                     | 0.40                    | 0.065                   | 1.50                  | LSG822M1V--A3525 |
|                          | 10,000                           | 22 × 40     | 2.42                                     | 0.40                    | 0.053                   | 1.50                  | LSG103M1V--A2240 |
|                          | 10,000                           | 25 × 40     | 2.83                                     | 0.40                    | 0.053                   | 1.50                  | LSG103M1V--A2540 |
|                          | 10,000                           | 30 × 30     | 2.75                                     | 0.40                    | 0.053                   | 1.50                  | LSG103M1V--A3030 |
|                          | 12,000                           | 22 × 45     | 2.79                                     | 0.40                    | 0.044                   | 1.50                  | LSG123M1V--A2245 |
|                          | 12,000                           | 25 × 45     | 3.00                                     | 0.40                    | 0.044                   | 1.50                  | LSG123M1V--A2545 |
|                          | 12,000                           | 30 × 35     | 2.96                                     | 0.40                    | 0.044                   | 1.50                  | LSG123M1V--A3035 |
| 12,000                   | 35 × 25                          | 2.75        | 0.40                                     | 0.044                   | 1.50                    | LSG123M1V--A3525      |                  |



## Dimension & Permissible Ripple Current

| Working Voltage<br>V <sub>DC</sub> | Capacitance<br>120Hz, 20°C<br>μF | φ D×L<br>mm | Ripple Current<br>120 Hz, 105°C<br>A/rms | Tan δ<br>at 120Hz, 20°C | ESR<br>120Hz, 20°C<br>Ω | LC<br>5 minutes<br>mA | Part Number      |
|------------------------------------|----------------------------------|-------------|------------------------------------------|-------------------------|-------------------------|-----------------------|------------------|
| <b>35</b>                          | 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 |
| <b>50</b>                          | 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      |                  |
| <b>63</b>                          | 1,200                            | 22 × 25     | 1.19                                     | 0.30                    | 0.332                   | 0.82                  | LSG122M1J--A2225 |
|                                    | 1,500                            | 22 × 25     | 1.30                                     | 0.30                    | 0.265                   | 0.92                  | LSG152M1J--A2225 |
|                                    | 1,500                            | 25 × 25     | 1.38                                     | 0.30                    | 0.265                   | 0.92                  | LSG152M1J--A2525 |
|                                    | 1,800                            | 22 × 25     | 1.36                                     | 0.30                    | 0.221                   | 1.01                  | LSG182M1J--A2225 |
|                                    | 1,800                            | 25 × 25     | 1.52                                     | 0.30                    | 0.221                   | 1.01                  | LSG182M1J--A2525 |
|                                    | 2,200                            | 22 × 30     | 1.55                                     | 0.30                    | 0.181                   | 1.12                  | LSG222M1J--A2230 |
|                                    | 2,200                            | 25 × 25     | 1.60                                     | 0.30                    | 0.181                   | 1.12                  | LSG222M1J--A2525 |
|                                    | 2,700                            | 22 × 35     | 1.89                                     | 0.30                    | 0.147                   | 1.24                  | LSG272M1J--A2235 |
|                                    | 2,700                            | 25 × 30     | 1.90                                     | 0.30                    | 0.147                   | 1.24                  | LSG272M1J--A2530 |
|                                    | 2,700                            | 30 × 25     | 1.97                                     | 0.30                    | 0.147                   | 1.24                  | LSG272M1J--A3025 |
|                                    | 3,300                            | 22 × 40     | 1.99                                     | 0.30                    | 0.121                   | 1.37                  | LSG332M1J--A2240 |
|                                    | 3,300                            | 25 × 35     | 2.06                                     | 0.30                    | 0.121                   | 1.37                  | LSG332M1J--A2535 |
|                                    | 3,300                            | 30 × 25     | 2.00                                     | 0.30                    | 0.121                   | 1.37                  | LSG332M1J--A3025 |
|                                    | 3,300                            | 35 × 25     | 2.22                                     | 0.30                    | 0.121                   | 1.37                  | LSG332M1J--A3525 |
|                                    | 3,900                            | 22 × 45     | 2.34                                     | 0.30                    | 0.102                   | 1.49                  | LSG392M1J--A2245 |
|                                    | 3,900                            | 25 × 35     | 2.20                                     | 0.30                    | 0.102                   | 1.49                  | LSG392M1J--A2535 |
|                                    | 3,900                            | 30 × 25     | 2.18                                     | 0.30                    | 0.102                   | 1.49                  | LSG392M1J--A3025 |
|                                    | 3,900                            | 35 × 25     | 2.40                                     | 0.30                    | 0.102                   | 1.49                  | LSG392M1J--A3525 |
|                                    | 4,700                            | 22 × 50     | 2.58                                     | 0.30                    | 0.085                   | 1.50                  | LSG472M1J--A2250 |
|                                    | 4,700                            | 25 × 40     | 2.51                                     | 0.30                    | 0.085                   | 1.50                  | LSG472M1J--A2540 |
|                                    | 4,700                            | 30 × 30     | 2.48                                     | 0.30                    | 0.085                   | 1.50                  | LSG472M1J--A3030 |
|                                    | 4,700                            | 35 × 25     | 2.54                                     | 0.30                    | 0.085                   | 1.50                  | LSG472M1J--A3525 |
|                                    | 5,600                            | 25 × 45     | 2.92                                     | 0.30                    | 0.071                   | 1.50                  | LSG562M1J--A2545 |
|                                    | 5,600                            | 30 × 35     | 2.91                                     | 0.30                    | 0.071                   | 1.50                  | LSG562M1J--A3035 |
|                                    | 5,600                            | 35 × 30     | 3.00                                     | 0.30                    | 0.071                   | 1.50                  | LSG562M1J--A3530 |
|                                    | 6,800                            | 30 × 50     | 3.65                                     | 0.30                    | 0.059                   | 1.50                  | LSG682M1J--A3050 |
|                                    | 6,800                            | 35 × 30     | 3.30                                     | 0.30                    | 0.059                   | 1.50                  | LSG682M1J--A3530 |



## Dimension & Permissible Ripple Current

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

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

## Dimension & Permissible Ripple Current

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

## Dimension & Permissible Ripple Current

| Working Voltage<br>V. DC | Capacitance<br>120Hz, 20°C<br>μF | φ D×L<br>mm | Ripple Current<br>120 Hz, 105°C<br>A/rms | Tan δ<br>at 120Hz, 20°C | ESR<br>120Hz, 20°C<br>Ω | LC<br>5 minutes<br>mA | Part Number      |
|--------------------------|----------------------------------|-------------|------------------------------------------|-------------------------|-------------------------|-----------------------|------------------|
| <b>400</b>               | 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 |
| <b>420</b>               | 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      |                  |
| <b>450</b>               | 82                               | 22 × 25     | 0.45                                     | 0.15                    | 2.427                   | 0.58                  | LSG820M2W--A2225 |
|                          | 100                              | 22 × 30     | 0.53                                     | 0.15                    | 1.990                   | 0.54                  | LSG101M2W--A2230 |
|                          | 100                              | 25 × 25     | 0.51                                     | 0.15                    | 1.990                   | 0.64                  | LSG101M2W--A2525 |
|                          | 120                              | 22 × 35     | 0.62                                     | 0.15                    | 1.659                   | 0.70                  | LSG121M2W--A2235 |
|                          | 150                              | 22 × 40     | 0.74                                     | 0.15                    | 1.327                   | 0.78                  | LSG151M2W--A2240 |
|                          | 150                              | 25 × 30     | 0.70                                     | 0.15                    | 1.327                   | 0.78                  | LSG151M2W--A2530 |
|                          | 150                              | 35 × 25     | 0.83                                     | 0.15                    | 1.327                   | 0.78                  | LSG151M2W--A3525 |
|                          | 180                              | 22 × 45     | 0.88                                     | 0.15                    | 1.106                   | 0.85                  | LSG181M2W--A2245 |
|                          | 180                              | 25 × 35     | 0.82                                     | 0.15                    | 1.106                   | 0.85                  | LSG181M2W--A2535 |
|                          | 180                              | 30 × 25     | 0.80                                     | 0.15                    | 1.106                   | 0.85                  | LSG181M2W--A3025 |
|                          | 220                              | 25 × 40     | 0.96                                     | 0.15                    | 0.905                   | 0.94                  | LSG221M2W--A2540 |
|                          | 220                              | 30 × 30     | 0.95                                     | 0.15                    | 0.905                   | 0.94                  | LSG221M2W--A3030 |
|                          | 270                              | 25 × 50     | 1.21                                     | 0.15                    | 0.737                   | 1.05                  | LSG271M2W--A2550 |
|                          | 270                              | 30 × 35     | 1.12                                     | 0.15                    | 0.737                   | 1.05                  | LSG271M2W--A3035 |
|                          | 330                              | 25 × 55     | 1.35                                     | 0.15                    | 0.603                   | 1.06                  | LSG331M2W--A2555 |
|                          | 330                              | 30 × 40     | 1.31                                     | 0.15                    | 0.603                   | 1.06                  | LSG331M2W--A3040 |
|                          | 330                              | 35 × 30     | 1.27                                     | 0.15                    | 0.603                   | 1.06                  | LSG331M2W--A3530 |
|                          | 390                              | 30 × 45     | 1.49                                     | 0.15                    | 0.510                   | 1.26                  | LSG391M2W--A3045 |
|                          | 390                              | 35 × 35     | 1.47                                     | 0.15                    | 0.510                   | 1.26                  | LSG391M2W--A3535 |
|                          | 390                              | 40 × 30     | 1.51                                     | 0.15                    | 0.510                   | 1.26                  | LSG391M2W--A4040 |



Dimension & Permissible Ripple Current

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

Part Numbering System

| LSG series                                                                                                                                                             | 100μF       | ±20%                  | 400V          |               | 4.0±0.5mm       | 22 φ × 30L  | Pb-free Terminal<br>+ PET Sleeve |     |  |  |                                                                                                                                   |    |        |     |    |     |    |                                                                                                                                           |      |        |        |    |        |    |                                                                                                                                                                                 |       |      |       |      |       |      |       |      |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|---------------|---------------|-----------------|-------------|----------------------------------|-----|--|--|-----------------------------------------------------------------------------------------------------------------------------------|----|--------|-----|----|-----|----|-------------------------------------------------------------------------------------------------------------------------------------------|------|--------|--------|----|--------|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|-------|------|-------|------|-------|------|--|--|
| <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:                                                                                                                                                               | Example:    | M = ±20%<br>K = ±10%  | Example:      | Example:      | Example:        | Example:    |                                  |     |  |  |                                                                                                                                   |    |        |     |    |     |    |                                                                                                                                           |      |        |        |    |        |    |                                                                                                                                                                                 |       |      |       |      |       |      |       |      |  |  |
| <table border="1"> <tr><th>Cap.</th><th>Symbol</th></tr> <tr><td>56</td><td>560</td></tr> <tr><td>220</td><td>221</td></tr> <tr><td>470</td><td>471</td></tr> </table> | Cap.        | Symbol                | 56            | 560           | 220             | 221         | 470                              | 471 |  |  | <table border="1"> <tr><th>WV</th><th>Symbol</th></tr> <tr><td>400</td><td>2G</td></tr> <tr><td>450</td><td>2W</td></tr> </table> | WV | Symbol | 400 | 2G | 450 | 2W | <table border="1"> <tr><th>Type</th><th>Symbol</th></tr> <tr><td>2 pins</td><td>--</td></tr> <tr><td>5 pins</td><td>L5</td></tr> </table> | Type | Symbol | 2 pins | -- | 5 pins | L5 | <table border="1"> <tr><th>φ D×L</th><th>Code</th></tr> <tr><td>22×30</td><td>2230</td></tr> <tr><td>25×25</td><td>2525</td></tr> <tr><td>30×40</td><td>3040</td></tr> </table> | φ D×L | Code | 22×30 | 2230 | 25×25 | 2525 | 30×40 | 3040 |  |  |
| Cap.                                                                                                                                                                   | Symbol      |                       |               |               |                 |             |                                  |     |  |  |                                                                                                                                   |    |        |     |    |     |    |                                                                                                                                           |      |        |        |    |        |    |                                                                                                                                                                                 |       |      |       |      |       |      |       |      |  |  |
| 56                                                                                                                                                                     | 560         |                       |               |               |                 |             |                                  |     |  |  |                                                                                                                                   |    |        |     |    |     |    |                                                                                                                                           |      |        |        |    |        |    |                                                                                                                                                                                 |       |      |       |      |       |      |       |      |  |  |
| 220                                                                                                                                                                    | 221         |                       |               |               |                 |             |                                  |     |  |  |                                                                                                                                   |    |        |     |    |     |    |                                                                                                                                           |      |        |        |    |        |    |                                                                                                                                                                                 |       |      |       |      |       |      |       |      |  |  |
| 470                                                                                                                                                                    | 471         |                       |               |               |                 |             |                                  |     |  |  |                                                                                                                                   |    |        |     |    |     |    |                                                                                                                                           |      |        |        |    |        |    |                                                                                                                                                                                 |       |      |       |      |       |      |       |      |  |  |
| WV                                                                                                                                                                     | Symbol      |                       |               |               |                 |             |                                  |     |  |  |                                                                                                                                   |    |        |     |    |     |    |                                                                                                                                           |      |        |        |    |        |    |                                                                                                                                                                                 |       |      |       |      |       |      |       |      |  |  |
| 400                                                                                                                                                                    | 2G          |                       |               |               |                 |             |                                  |     |  |  |                                                                                                                                   |    |        |     |    |     |    |                                                                                                                                           |      |        |        |    |        |    |                                                                                                                                                                                 |       |      |       |      |       |      |       |      |  |  |
| 450                                                                                                                                                                    | 2W          |                       |               |               |                 |             |                                  |     |  |  |                                                                                                                                   |    |        |     |    |     |    |                                                                                                                                           |      |        |        |    |        |    |                                                                                                                                                                                 |       |      |       |      |       |      |       |      |  |  |
| Type                                                                                                                                                                   | Symbol      |                       |               |               |                 |             |                                  |     |  |  |                                                                                                                                   |    |        |     |    |     |    |                                                                                                                                           |      |        |        |    |        |    |                                                                                                                                                                                 |       |      |       |      |       |      |       |      |  |  |
| 2 pins                                                                                                                                                                 | --          |                       |               |               |                 |             |                                  |     |  |  |                                                                                                                                   |    |        |     |    |     |    |                                                                                                                                           |      |        |        |    |        |    |                                                                                                                                                                                 |       |      |       |      |       |      |       |      |  |  |
| 5 pins                                                                                                                                                                 | L5          |                       |               |               |                 |             |                                  |     |  |  |                                                                                                                                   |    |        |     |    |     |    |                                                                                                                                           |      |        |        |    |        |    |                                                                                                                                                                                 |       |      |       |      |       |      |       |      |  |  |
| φ D×L                                                                                                                                                                  | Code        |                       |               |               |                 |             |                                  |     |  |  |                                                                                                                                   |    |        |     |    |     |    |                                                                                                                                           |      |        |        |    |        |    |                                                                                                                                                                                 |       |      |       |      |       |      |       |      |  |  |
| 22×30                                                                                                                                                                  | 2230        |                       |               |               |                 |             |                                  |     |  |  |                                                                                                                                   |    |        |     |    |     |    |                                                                                                                                           |      |        |        |    |        |    |                                                                                                                                                                                 |       |      |       |      |       |      |       |      |  |  |
| 25×25                                                                                                                                                                  | 2525        |                       |               |               |                 |             |                                  |     |  |  |                                                                                                                                   |    |        |     |    |     |    |                                                                                                                                           |      |        |        |    |        |    |                                                                                                                                                                                 |       |      |       |      |       |      |       |      |  |  |
| 30×40                                                                                                                                                                  | 3040        |                       |               |               |                 |             |                                  |     |  |  |                                                                                                                                   |    |        |     |    |     |    |                                                                                                                                           |      |        |        |    |        |    |                                                                                                                                                                                 |       |      |       |      |       |      |       |      |  |  |

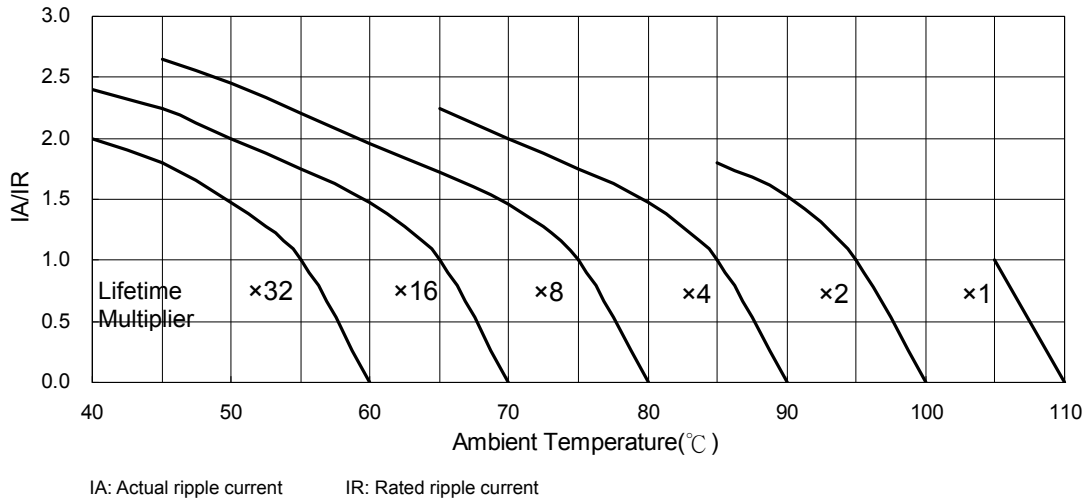
Note: For more details, please refer to "Part Numbering System (Snap-in Type)" on page 13.



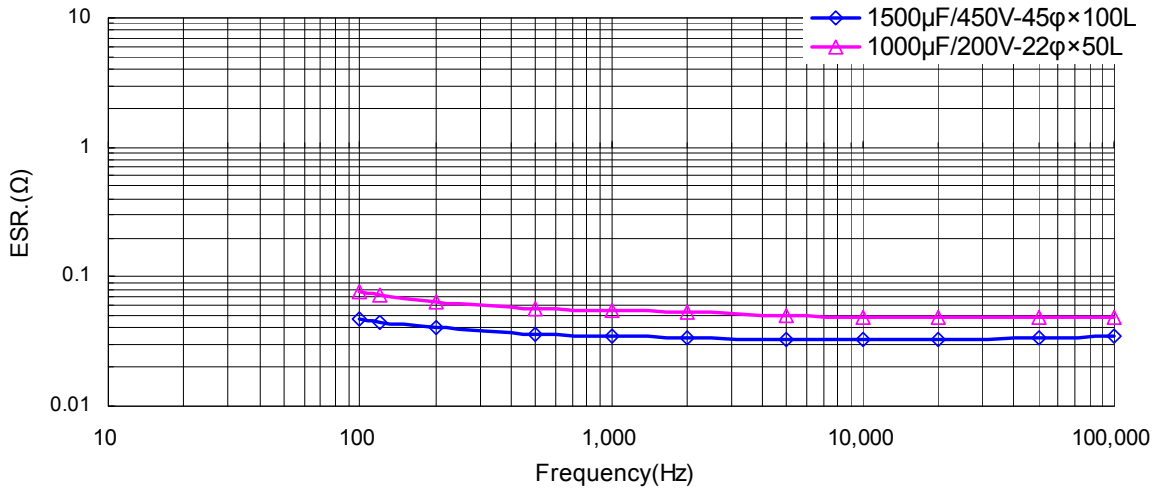
## Typical Endurance Curves



### Useful Life Chart



### ESR-Frequency Characteristics



### ESR-Temperature Characteristics





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

Наши преимущества:

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

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

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



#### Как с нами связаться

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