

## LSM Series

### Features

- Snap-in terminal type
- 105°C, 3,000 hours assured
- RoHS Compliance



Sleeve & Marking Color: Black & 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√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>0.10*</td> <td>0.10*</td> <td>0.10*</td> <td>0.15</td> <td>0.15</td> <td>0.15</td> <td>0.15</td> <td>0.15</td> </tr> </tbody> </table> <p>*: 0.15 for φ D = 35mm</p>   |  | 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 | 0.10* | 0.10* | 0.10* | 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 | 0.10*                             | 0.10*           | 0.10*                  | 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 rowspan="2">Impedance Ratio</td> <td>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>2</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> <td>8</td> <td>8</td> <td>8</td> </tr> <tr> <td>Z(-40°C)/Z(+20°C)</td> <td>15</td> <td>10</td> <td>8</td> <td>6</td> <td>6</td> <td>6</td> <td>5</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    | 2     | 4     | 4     | 4    | 4    | 8    | 8    | 8    | Z(-40°C)/Z(+20°C) | 15 | 10 | 8 | 6 | 6 | 6 | 5 | - | - | - | - | - | - | - |
| 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    | 2                                 | 4               | 4                      | 4    | 4    | 8    | 8    | 8    |     |     |     |                 |                   |      |      |      |      |      |      |       |       |       |      |      |      |      |      |                   |    |    |   |   |   |   |   |   |   |   |   |   |   |   |
|  | Z(-40°C)/Z(+20°C)  | 15   | 10             | 8         | 6                  | 6                            | 6    | 5                                 | -               | -                      | -    | -    | -    | -    | -    |     |     |     |                 |                   |      |      |      |      |      |      |       |       |       |      |      |      |      |      |                   |    |    |   |   |   |   |   |   |   |   |   |   |   |   |
| Endurance                                  | <table border="1"> <thead> <tr> <th>Test Time</th> <th>3,000 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 3,000 hours at 105°C.</p>  |  | Test Time      | 3,000 Hrs | Capacitance Change | Within ±20% of initial value | Tanδ | Less than 200% of specified value | Leakage Current | Within specified value |      |      |      |      |      |     |     |     |                 |                   |      |      |      |      |      |      |       |       |       |      |      |      |      |      |                   |    |    |   |   |   |   |   |   |   |   |   |   |   |   |
| Test Time                                  | 3,000 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 and Frequency Multipliers   | <table border="1"> <thead> <tr> <th>Frequency (Hz)</th> <th>50 / 60</th> <th>100 / 120</th> <th>300</th> <th>1k</th> <th>10k up</th> </tr> </thead> <tbody> <tr> <td>Multiplier</td> <td>0.8</td> <td>1.0</td> <td>1.1</td> <td>1.3</td> <td>1.4</td> </tr> </tbody> </table>  |  | Frequency (Hz) | 50 / 60   | 100 / 120          | 300                          | 1k   | 10k up                            | Multiplier      | 0.8                    | 1.0  | 1.1  | 1.3  | 1.4  |      |     |     |     |                 |                   |      |      |      |      |      |      |       |       |       |      |      |      |      |      |                   |    |    |   |   |   |   |   |   |   |   |   |   |   |   |
| Frequency (Hz)                             | 50 / 60  | 100 / 120  | 300            | 1k        | 10k up             |                              |      |                                   |                 |                        |      |      |      |      |      |     |     |     |                 |                   |      |      |      |      |      |      |       |       |       |      |      |      |      |      |                   |    |    |   |   |   |   |   |   |   |   |   |   |   |   |
| Multiplier                                 | 0.8  | 1.0  | 1.1            | 1.3       | 1.4                |                              |      |                                   |                 |                        |      |      |      |      |      |     |     |     |                 |                   |      |      |      |      |      |      |       |       |       |      |      |      |      |      |                   |    |    |   |   |   |   |   |   |   |   |   |   |   |   |
| 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



Snap-In

## Dimension and 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>                | 4,700                            | 22 × 25     | 1.30                                     | 0.50                    | 0.141                   | 0.82                  | LSM472M1C--A2225 |
|                          | 6,800                            | 22 × 35     | 1.80                                     | 0.50                    | 0.098                   | 0.99                  | LSM682M1C--A2235 |
|                          | 6,800                            | 25 × 30     | 1.80                                     | 0.50                    | 0.098                   | 0.99                  | LSM682M1C--A2530 |
|                          | 10,000                           | 22 × 45     | 2.34                                     | 0.50                    | 0.066                   | 1.20                  | LSM103M1C--A2245 |
|                          | 10,000                           | 25 × 35     | 2.25                                     | 0.50                    | 0.066                   | 1.20                  | LSM103M1C--A2535 |
|                          | 10,000                           | 30 × 25     | 2.19                                     | 0.50                    | 0.066                   | 1.20                  | LSM103M1C--A3025 |
|                          | 15,000                           | 25 × 45     | 2.83                                     | 0.50                    | 0.044                   | 1.47                  | LSM153M1C--A2545 |
|                          | 15,000                           | 30 × 35     | 2.82                                     | 0.50                    | 0.044                   | 1.47                  | LSM153M1C--A3035 |
|                          | 15,000                           | 35 × 30     | 2.82                                     | 0.50                    | 0.044                   | 1.47                  | LSM153M1C--A3530 |
|                          | 22,000                           | 30 × 45     | 3.13                                     | 0.50                    | 0.030                   | 1.50                  | LSM223M1C--A3045 |
| 22,000                   | 35 × 35                          | 3.09        | 0.50                                     | 0.030                   | 1.50                    | LSM223M1C--A3535      |                  |
| <b>25</b>                | 3,300                            | 22 × 25     | 1.25                                     | 0.45                    | 0.181                   | 0.86                  | LSM332M1E--A2225 |
|                          | 4,700                            | 22 × 30     | 1.61                                     | 0.45                    | 0.127                   | 1.03                  | LSM472M1E--A2230 |
|                          | 4,700                            | 25 × 25     | 1.61                                     | 0.45                    | 0.127                   | 1.03                  | LSM472M1E--A2525 |
|                          | 6,800                            | 22 × 35     | 1.91                                     | 0.45                    | 0.088                   | 1.24                  | LSM682M1E--A2235 |
|                          | 6,800                            | 25 × 30     | 1.91                                     | 0.45                    | 0.088                   | 1.24                  | LSM682M1E--A2530 |
|                          | 6,800                            | 30 × 25     | 1.91                                     | 0.45                    | 0.088                   | 1.24                  | LSM682M1E--A3025 |
|                          | 10,000                           | 22 × 45     | 2.51                                     | 0.45                    | 0.060                   | 1.50                  | LSM103M1E--A2245 |
|                          | 10,000                           | 25 × 40     | 2.42                                     | 0.45                    | 0.060                   | 1.50                  | LSM103M1E--A2540 |
|                          | 10,000                           | 30 × 30     | 2.42                                     | 0.45                    | 0.060                   | 1.50                  | LSM103M1E--A3030 |
|                          | 10,000                           | 35 × 25     | 2.42                                     | 0.45                    | 0.060                   | 1.50                  | LSM103M1E--A3525 |
|                          | 15,000                           | 25 × 45     | 3.12                                     | 0.45                    | 0.040                   | 1.50                  | LSM153M1E--A2545 |
|                          | 15,000                           | 30 × 35     | 3.11                                     | 0.45                    | 0.040                   | 1.50                  | LSM153M1E--A3035 |
|                          | 15,000                           | 35 × 30     | 3.11                                     | 0.45                    | 0.040                   | 1.50                  | LSM153M1E--A3530 |
|                          | 22,000                           | 30 × 45     | 3.85                                     | 0.45                    | 0.027                   | 1.50                  | LSM223M1E--A3045 |
|                          | 22,000                           | 35 × 40     | 3.85                                     | 0.45                    | 0.027                   | 1.50                  | LSM223M1E--A3540 |
|                          | <b>35</b>                        | 2,200       | 22 × 25                                  | 1.14                    | 0.40                    | 0.241                 | 0.83             |
| 2,200                    |                                  | 25 × 25     | 1.51                                     | 0.40                    | 0.241                   | 0.83                  | LSM222M1V--A2525 |
| 3,300                    |                                  | 22 × 30     | 1.51                                     | 0.40                    | 0.161                   | 1.02                  | LSM332M1V--A2230 |
| 3,300                    |                                  | 25 × 30     | 1.92                                     | 0.40                    | 0.161                   | 1.02                  | LSM332M1V--A2530 |
| 4,700                    |                                  | 22 × 35     | 1.92                                     | 0.40                    | 0.113                   | 1.22                  | LSM472M1V--A2235 |
| 4,700                    |                                  | 25 × 40     | 2.31                                     | 0.40                    | 0.113                   | 1.22                  | LSM472M1V--A2540 |
| 4,700                    |                                  | 30 × 25     | 1.92                                     | 0.40                    | 0.113                   | 1.22                  | LSM472M1V--A3025 |
| 6,800                    |                                  | 22 × 45     | 2.31                                     | 0.40                    | 0.078                   | 1.46                  | LSM682M1V--A2245 |
| 6,800                    |                                  | 25 × 45     | 2.87                                     | 0.40                    | 0.078                   | 1.46                  | LSM682M1V--A2545 |
| 6,800                    |                                  | 30 × 30     | 2.33                                     | 0.40                    | 0.078                   | 1.46                  | LSM682M1V--A3030 |
| 6,800                    |                                  | 35 × 25     | 2.33                                     | 0.40                    | 0.078                   | 1.46                  | LSM682M1V--A3525 |
| 10,000                   |                                  | 30 × 35     | 2.87                                     | 0.40                    | 0.053                   | 1.50                  | LSM103M1V--A3035 |
| 10,000                   |                                  | 35 × 30     | 2.87                                     | 0.40                    | 0.053                   | 1.50                  | LSM103M1V--A3530 |
| 15,000                   |                                  | 30 × 45     | 3.66                                     | 0.40                    | 0.035                   | 1.50                  | LSM153M1V--A3045 |
| 15,000                   |                                  | 35 × 40     | 3.66                                     | 0.40                    | 0.035                   | 1.50                  | LSM153M1V--A3540 |
| 22,000                   |                                  | 35 × 45     | 4.53                                     | 0.40                    | 0.024                   | 1.50                  | LSM223M1V--A3545 |
| <b>50</b>                | 1,500                            | 22 × 25     | 1.22                                     | 0.35                    | 0.310                   | 0.82                  | LSM152M1H--A2225 |
|                          | 2,200                            | 22 × 30     | 1.59                                     | 0.35                    | 0.211                   | 0.99                  | LSM222M1H--A2230 |
|                          | 2,200                            | 25 × 25     | 1.59                                     | 0.35                    | 0.211                   | 0.99                  | LSM222M1H--A2525 |
|                          | 3,300                            | 22 × 35     | 1.93                                     | 0.35                    | 0.141                   | 1.22                  | LSM332M1H--A2235 |
|                          | 3,300                            | 25 × 30     | 1.88                                     | 0.35                    | 0.141                   | 1.22                  | LSM332M1H--A2530 |
|                          | 3,300                            | 30 × 25     | 1.88                                     | 0.35                    | 0.141                   | 1.22                  | LSM332M1H--A3025 |
|                          | 4,700                            | 22 × 45     | 2.43                                     | 0.35                    | 0.099                   | 1.45                  | LSM472M1H--A2245 |
|                          | 4,700                            | 25 × 35     | 2.34                                     | 0.35                    | 0.099                   | 1.45                  | LSM472M1H--A2535 |
|                          | 4,700                            | 30 × 30     | 2.42                                     | 0.35                    | 0.099                   | 1.45                  | LSM472M1H--A3030 |
|                          | 4,700                            | 35 × 25     | 2.42                                     | 0.35                    | 0.099                   | 1.45                  | LSM472M1H--A3525 |
|                          | 6,800                            | 25 × 45     | 3.10                                     | 0.35                    | 0.068                   | 1.50                  | LSM682M1H--A2545 |
|                          | 6,800                            | 30 × 35     | 3.10                                     | 0.35                    | 0.068                   | 1.50                  | LSM682M1H--A3035 |
|                          | 6,800                            | 35 × 30     | 3.10                                     | 0.35                    | 0.068                   | 1.50                  | LSM682M1H--A3530 |
|                          | 10,000                           | 30 × 45     | 4.18                                     | 0.35                    | 0.046                   | 1.50                  | LSM103M1H--A3045 |
|                          | 10,000                           | 35 × 40     | 4.20                                     | 0.35                    | 0.046                   | 1.50                  | LSM103M1H--A3540 |
|                          | <b>63</b>                        | 1,000       | 20 × 20                                  | 0.90                    | 0.30                    | 0.398                 | 0.75             |
| 1,000                    |                                  | 22 × 20     | 0.90                                     | 0.30                    | 0.398                   | 0.75                  | LSM102M1J--A2220 |
| 1,200                    |                                  | 20 × 25     | 1.08                                     | 0.30                    | 0.332                   | 0.82                  | LSM122M1J--A2025 |
| 1,200                    |                                  | 22 × 20     | 1.05                                     | 0.30                    | 0.332                   | 0.82                  | LSM122M1J--A2220 |
| 1,500                    |                                  | 20 × 30     | 1.31                                     | 0.30                    | 0.265                   | 0.92                  | LSM152M1J--A2030 |
| 1,500                    |                                  | 22 × 25     | 1.28                                     | 0.30                    | 0.265                   | 0.92                  | LSM152M1J--A2225 |



## Dimension and 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>63</b>                | 1,500                            | 25 × 20     | 1.27                                     | 0.30                    | 0.265                   | 0.92                  | LSM152M1J--A2520 |                  |
|                          | 2,200                            | 20 × 35     | 1.70                                     | 0.30                    | 0.181                   | 1.12                  | LSM222M1J--A2035 |                  |
|                          | 2,200                            | 22 × 35     | 1.78                                     | 0.30                    | 0.181                   | 1.12                  | LSM222M1J--A2235 |                  |
|                          | 2,200                            | 25 × 25     | 1.60                                     | 0.30                    | 0.181                   | 1.12                  | LSM222M1J--A2525 |                  |
|                          | 2,200                            | 30 × 25     | 1.78                                     | 0.30                    | 0.181                   | 1.12                  | LSM222M1J--A3025 |                  |
|                          | 2,700                            | 20 × 40     | 1.82                                     | 0.30                    | 0.147                   | 1.24                  | LSM272M1J--A2040 |                  |
|                          | 2,700                            | 22 × 35     | 1.81                                     | 0.30                    | 0.147                   | 1.24                  | LSM272M1J--A2235 |                  |
|                          | 2,700                            | 25 × 30     | 1.83                                     | 0.30                    | 0.147                   | 1.24                  | LSM272M1J--A2530 |                  |
|                          | 2,700                            | 30 × 25     | 1.89                                     | 0.30                    | 0.147                   | 1.24                  | LSM272M1J--A3025 |                  |
|                          | 3,300                            | 20 × 45     | 2.00                                     | 0.30                    | 0.121                   | 1.37                  | LSM332M1J--A2045 |                  |
|                          | 3,300                            | 22 × 40     | 2.00                                     | 0.30                    | 0.121                   | 1.37                  | LSM332M1J--A2240 |                  |
|                          | 3,300                            | 25 × 35     | 2.03                                     | 0.30                    | 0.121                   | 1.37                  | LSM332M1J--A2535 |                  |
|                          | 3,300                            | 30 × 25     | 1.81                                     | 0.30                    | 0.121                   | 1.37                  | LSM332M1J--A3025 |                  |
|                          | 3,300                            | 35 × 25     | 2.03                                     | 0.30                    | 0.121                   | 1.37                  | LSM332M1J--A3525 |                  |
|                          | 3,900                            | 20 × 50     | 2.16                                     | 0.30                    | 0.102                   | 1.49                  | LSM392M1J--A2050 |                  |
|                          | 3,900                            | 22 × 50     | 2.37                                     | 0.30                    | 0.102                   | 1.49                  | LSM392M1J--A2250 |                  |
|                          | 3,900                            | 25 × 40     | 2.22                                     | 0.30                    | 0.102                   | 1.49                  | LSM392M1J--A2540 |                  |
|                          | 3,900                            | 30 × 30     | 2.19                                     | 0.30                    | 0.102                   | 1.49                  | LSM392M1J--A3030 |                  |
|                          | 3,900                            | 35 × 25     | 2.24                                     | 0.30                    | 0.102                   | 1.49                  | LSM392M1J--A3525 |                  |
|                          | 4,700                            | 25 × 45     | 2.56                                     | 0.30                    | 0.085                   | 1.50                  | LSM472M1J--A2545 |                  |
|                          | 4,700                            | 30 × 35     | 2.66                                     | 0.30                    | 0.085                   | 1.50                  | LSM472M1J--A3035 |                  |
|                          | 4,700                            | 35 × 25     | 2.46                                     | 0.30                    | 0.085                   | 1.50                  | LSM472M1J--A3525 |                  |
|                          | 5,600                            | 25 × 50     | 2.93                                     | 0.30                    | 0.071                   | 1.50                  | LSM562M1J--A2550 |                  |
|                          | 5,600                            | 30 × 35     | 2.79                                     | 0.30                    | 0.071                   | 1.50                  | LSM562M1J--A3035 |                  |
|                          | 5,600                            | 35 × 30     | 2.88                                     | 0.30                    | 0.071                   | 1.50                  | LSM562M1J--A3530 |                  |
|                          | 6,800                            | 30 × 40     | 3.25                                     | 0.30                    | 0.059                   | 1.50                  | LSM682M1J--A3040 |                  |
|                          | 6,800                            | 35 × 35     | 3.26                                     | 0.30                    | 0.059                   | 1.50                  | LSM682M1J--A3535 |                  |
|                          | 6,800                            | 35 × 40     | 3.49                                     | 0.30                    | 0.059                   | 1.50                  | LSM682M1J--A3540 |                  |
|                          | 8,200                            | 35 × 40     | 3.52                                     | 0.30                    | 0.049                   | 1.50                  | LSM822M1J--A3540 |                  |
|                          | <b>80</b>                        | 1,000       | 22 × 25                                  | 1.05                    | 0.25                    | 0.332                 | 0.85             | LSM102M1K--A2225 |
|                          |                                  | 1,000       | 25 × 20                                  | 1.04                    | 0.25                    | 0.332                 | 0.85             | LSM102M1K--A2520 |
|                          |                                  | 1,200       | 20 × 30                                  | 1.17                    | 0.25                    | 0.276                 | 0.93             | LSM122M1K--A2030 |
| 1,200                    |                                  | 22 × 30     | 1.24                                     | 0.25                    | 0.276                   | 0.93                  | LSM122M1K--A2230 |                  |
| 1,200                    |                                  | 25 × 25     | 1.24                                     | 0.25                    | 0.276                   | 0.93                  | LSM122M1K--A2525 |                  |
| 1,500                    |                                  | 20 × 40     | 1.49                                     | 0.25                    | 0.221                   | 1.04                  | LSM152M1K--A2040 |                  |
| 1,500                    |                                  | 22 × 35     | 1.54                                     | 0.25                    | 0.221                   | 1.04                  | LSM152M1K--A2235 |                  |
| 1,500                    |                                  | 25 × 30     | 1.54                                     | 0.25                    | 0.221                   | 1.04                  | LSM152M1K--A2530 |                  |
| 1,500                    |                                  | 30 × 25     | 1.61                                     | 0.25                    | 0.221                   | 1.04                  | LSM152M1K--A3025 |                  |
| 2,200                    |                                  | 20 × 50     | 1.94                                     | 0.25                    | 0.151                   | 1.26                  | LSM222M1K--A2050 |                  |
| 2,200                    |                                  | 22 × 45     | 1.95                                     | 0.25                    | 0.151                   | 1.26                  | LSM222M1K--A2245 |                  |
| 2,200                    |                                  | 25 × 35     | 1.94                                     | 0.25                    | 0.151                   | 1.26                  | LSM222M1K--A2535 |                  |
| 2,200                    |                                  | 30 × 30     | 2.05                                     | 0.25                    | 0.151                   | 1.26                  | LSM222M1K--A3030 |                  |
| 2,200                    |                                  | 35 × 25     | 2.10                                     | 0.25                    | 0.151                   | 1.26                  | LSM222M1K--A3525 |                  |
| 3,300                    |                                  | 25 × 50     | 2.25                                     | 0.25                    | 0.101                   | 1.50                  | LSM332M1K--A2550 |                  |
| 3,300                    |                                  | 30 × 35     | 2.24                                     | 0.25                    | 0.101                   | 1.50                  | LSM332M1K--A3035 |                  |
| 3,300                    |                                  | 35 × 30     | 2.30                                     | 0.25                    | 0.101                   | 1.50                  | LSM332M1K--A3530 |                  |
| 4,700                    |                                  | 30 × 45     | 2.84                                     | 0.25                    | 0.071                   | 1.50                  | LSM472M1K--A3045 |                  |
| 4,700                    | 35 × 35                          | 2.80        | 0.25                                     | 0.071                   | 1.50                    | LSM472M1K--A3535      |                  |                  |
| <b>100</b>               | 1,000                            | 20 × 35     | 1.28                                     | 0.20                    | 0.265                   | 0.95                  | LSM102M2A--A2035 |                  |
|                          | 1,000                            | 22 × 30     | 1.36                                     | 0.20                    | 0.265                   | 0.95                  | LSM102M2A--A2230 |                  |
|                          | 1,000                            | 25 × 25     | 1.36                                     | 0.20                    | 0.265                   | 0.95                  | LSM102M2A--A2525 |                  |
|                          | 1,200                            | 20 × 40     | 1.49                                     | 0.20                    | 0.221                   | 1.04                  | LSM122M2A--A2040 |                  |
|                          | 1,200                            | 22 × 35     | 1.48                                     | 0.20                    | 0.221                   | 1.04                  | LSM122M2A--A2235 |                  |
|                          | 1,200                            | 25 × 30     | 1.49                                     | 0.20                    | 0.221                   | 1.04                  | LSM122M2A--A2530 |                  |
|                          | 1,500                            | 20 × 45     | 1.75                                     | 0.20                    | 0.177                   | 1.16                  | LSM152M2A--A2045 |                  |
|                          | 1,500                            | 22 × 40     | 1.82                                     | 0.20                    | 0.177                   | 1.16                  | LSM152M2A--A2240 |                  |
|                          | 1,500                            | 25 × 35     | 1.85                                     | 0.20                    | 0.177                   | 1.16                  | LSM152M2A--A2535 |                  |
|                          | 1,500                            | 30 × 25     | 1.80                                     | 0.20                    | 0.177                   | 1.16                  | LSM152M2A--A3025 |                  |
|                          | 2,200                            | 25 × 45     | 2.50                                     | 0.20                    | 0.121                   | 1.41                  | LSM222M2A--A2545 |                  |
|                          | 2,200                            | 30 × 35     | 2.50                                     | 0.20                    | 0.121                   | 1.41                  | LSM222M2A--A3035 |                  |
|                          | 2,200                            | 35 × 30     | 2.50                                     | 0.20                    | 0.121                   | 1.41                  | LSM222M2A--A3530 |                  |
|                          | 2,700                            | 25 × 50     | 2.70                                     | 0.20                    | 0.098                   | 1.50                  | LSM272M2A--A2550 |                  |
|                          | 2,700                            | 30 × 40     | 2.72                                     | 0.20                    | 0.098                   | 1.50                  | LSM272M2A--A3040 |                  |
|                          | 2,700                            | 35 × 35     | 2.82                                     | 0.20                    | 0.098                   | 1.50                  | LSM272M2A--A3535 |                  |
|                          | 3,300                            | 30 × 45     | 3.11                                     | 0.20                    | 0.080                   | 1.50                  | LSM332M2A--A3045 |                  |



## Dimension and 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>100</b>               | 3,300                            | 35 × 35     | 3.07                                     | 0.20                    | 0.080                   | 1.50                  | LSM332M2A--A3535 |
|                          | 3,900                            | 30 × 50     | 3.40                                     | 0.20                    | 0.068                   | 1.50                  | LSM392M2A--A3050 |
|                          | 3,900                            | 35 × 40     | 3.38                                     | 0.20                    | 0.068                   | 1.50                  | LSM392M2A--A3540 |
|                          | 4,700                            | 35 × 45     | 3.90                                     | 0.20                    | 0.056                   | 1.50                  | LSM472M2A--A3545 |
| <b>160</b>               | 180                              | 20 × 20     | 0.61                                     | 0.10                    | 0.737                   | 0.51                  | LSM181M2C--A2020 |
|                          | 220                              | 20 × 25     | 0.73                                     | 0.10                    | 0.603                   | 0.56                  | LSM221M2C--A2025 |
|                          | 220                              | 22 × 20     | 0.71                                     | 0.10                    | 0.603                   | 0.56                  | LSM221M2C--A2220 |
|                          | 270                              | 20 × 25     | 0.81                                     | 0.10                    | 0.491                   | 0.62                  | LSM271M2C--A2025 |
|                          | 270                              | 25 × 20     | 0.85                                     | 0.10                    | 0.491                   | 0.62                  | LSM271M2C--A2520 |
|                          | 330                              | 20 × 30     | 0.97                                     | 0.10                    | 0.402                   | 0.69                  | LSM331M2C--A2030 |
|                          | 330                              | 22 × 25     | 0.98                                     | 0.10                    | 0.402                   | 0.69                  | LSM331M2C--A2225 |
|                          | 330                              | 25 × 20     | 0.94                                     | 0.10                    | 0.402                   | 0.69                  | LSM331M2C--A2520 |
|                          | 390                              | 20 × 30     | 1.06                                     | 0.10                    | 0.340                   | 0.75                  | LSM391M2C--A2030 |
|                          | 390                              | 22 × 25     | 1.03                                     | 0.10                    | 0.340                   | 0.75                  | LSM391M2C--A2225 |
|                          | 390                              | 25 × 25     | 1.09                                     | 0.10                    | 0.340                   | 0.75                  | LSM391M2C--A2525 |
|                          | 470                              | 20 × 35     | 1.17                                     | 0.10                    | 0.282                   | 0.82                  | LSM471M2C--A2035 |
|                          | 470                              | 22 × 30     | 1.21                                     | 0.10                    | 0.282                   | 0.82                  | LSM471M2C--A2230 |
|                          | 470                              | 25 × 25     | 1.19                                     | 0.10                    | 0.282                   | 0.82                  | LSM471M2C--A2525 |
|                          | 560                              | 20 × 40     | 1.35                                     | 0.10                    | 0.237                   | 0.90                  | LSM561M2C--A2040 |
|                          | 560                              | 22 × 35     | 1.40                                     | 0.10                    | 0.237                   | 0.90                  | LSM561M2C--A2235 |
|                          | 560                              | 25 × 30     | 1.40                                     | 0.10                    | 0.237                   | 0.90                  | LSM561M2C--A2530 |
|                          | 560                              | 30 × 25     | 1.40                                     | 0.10                    | 0.237                   | 0.90                  | LSM561M2C--A3025 |
|                          | 680                              | 20 × 45     | 1.57                                     | 0.10                    | 0.195                   | 0.99                  | LSM681M2C--A2045 |
|                          | 680                              | 22 × 40     | 1.62                                     | 0.10                    | 0.195                   | 0.99                  | LSM681M2C--A2240 |
|                          | 680                              | 25 × 35     | 1.61                                     | 0.10                    | 0.195                   | 0.99                  | LSM681M2C--A2535 |
|                          | 680                              | 30 × 25     | 1.54                                     | 0.10                    | 0.195                   | 0.99                  | LSM681M2C--A3025 |
|                          | 820                              | 22 × 45     | 1.86                                     | 0.10                    | 0.162                   | 1.09                  | LSM821M2C--A2245 |
|                          | 820                              | 25 × 40     | 1.86                                     | 0.10                    | 0.162                   | 1.09                  | LSM821M2C--A2540 |
|                          | 820                              | 30 × 30     | 1.79                                     | 0.10                    | 0.162                   | 1.09                  | LSM821M2C--A3030 |
|                          | 820                              | 35 × 25     | 1.79                                     | 0.15                    | 0.243                   | 1.09                  | LSM821M2C--A3525 |
|                          | 1,000                            | 22 × 50     | 2.18                                     | 0.10                    | 0.133                   | 1.20                  | LSM102M2C--A2250 |
|                          | 1,000                            | 25 × 45     | 2.15                                     | 0.10                    | 0.133                   | 1.20                  | LSM102M2C--A2545 |
|                          | 1,000                            | 30 × 35     | 2.09                                     | 0.10                    | 0.133                   | 1.20                  | LSM102M2C--A3035 |
|                          | 1,000                            | 35 × 25     | 1.98                                     | 0.15                    | 0.199                   | 1.20                  | LSM102M2C--A3525 |
|                          | 1,200                            | 25 × 50     | 2.35                                     | 0.10                    | 0.111                   | 1.31                  | LSM122M2C--A2550 |
|                          | 1,200                            | 30 × 40     | 2.35                                     | 0.10                    | 0.111                   | 1.31                  | LSM122M2C--A3040 |
|                          | 1,200                            | 35 × 30     | 2.29                                     | 0.15                    | 0.166                   | 1.31                  | LSM122M2C--A3530 |
|                          | 1,500                            | 30 × 35     | 2.56                                     | 0.10                    | 0.088                   | 1.47                  | LSM152M2C--A3035 |
| 1,500                    | 35 × 35                          | 2.72        | 0.15                                     | 0.133                   | 1.47                    | LSM152M2C--A3535      |                  |
| 1,800                    | 30 × 45                          | 2.97        | 0.10                                     | 0.074                   | 1.50                    | LSM182M2C--A3045      |                  |
| 1,800                    | 35 × 40                          | 3.09        | 0.15                                     | 0.111                   | 1.50                    | LSM182M2C--A3540      |                  |
| 2,200                    | 30 × 60                          | 3.48        | 0.10                                     | 0.060                   | 1.50                    | LSM222M2C--A3060      |                  |
| 2,200                    | 35 × 50                          | 3.51        | 0.15                                     | 0.090                   | 1.50                    | LSM222M2C--A3550      |                  |
| 2,700                    | 35 × 55                          | 4.05        | 0.15                                     | 0.074                   | 1.50                    | LSM272M2C--A3555      |                  |
| <b>200</b>               | 180                              | 22 × 20     | 0.70                                     | 0.10                    | 0.737                   | 0.57                  | LSM181M2D--A2220 |
|                          | 220                              | 20 × 25     | 0.80                                     | 0.10                    | 0.603                   | 0.63                  | LSM221M2D--A2025 |
|                          | 220                              | 25 × 20     | 0.84                                     | 0.10                    | 0.603                   | 0.63                  | LSM221M2D--A2520 |
|                          | 270                              | 20 × 30     | 0.96                                     | 0.10                    | 0.491                   | 0.70                  | LSM271M2D--A2030 |
|                          | 270                              | 22 × 25     | 1.03                                     | 0.10                    | 0.491                   | 0.70                  | LSM271M2D--A2225 |
|                          | 330                              | 22 × 30     | 1.21                                     | 0.10                    | 0.402                   | 0.77                  | LSM331M2D--A2230 |
|                          | 390                              | 20 × 35     | 1.24                                     | 0.10                    | 0.340                   | 0.84                  | LSM391M2D--A2035 |
|                          | 390                              | 22 × 35     | 1.39                                     | 0.10                    | 0.340                   | 0.84                  | LSM391M2D--A2235 |
|                          | 390                              | 25 × 25     | 1.31                                     | 0.10                    | 0.340                   | 0.84                  | LSM391M2D--A2525 |
|                          | 470                              | 20 × 40     | 1.44                                     | 0.10                    | 0.282                   | 0.92                  | LSM471M2D--A2040 |
|                          | 470                              | 22 × 35     | 1.52                                     | 0.10                    | 0.282                   | 0.92                  | LSM471M2D--A2235 |
|                          | 470                              | 25 × 30     | 1.52                                     | 0.10                    | 0.282                   | 0.92                  | LSM471M2D--A2530 |
|                          | 560                              | 20 × 50     | 1.74                                     | 0.10                    | 0.237                   | 1.00                  | LSM561M2D--A2050 |
|                          | 560                              | 22 × 40     | 1.66                                     | 0.10                    | 0.237                   | 1.00                  | LSM561M2D--A2240 |
|                          | 560                              | 25 × 35     | 1.75                                     | 0.10                    | 0.237                   | 1.00                  | LSM561M2D--A2535 |
|                          | 560                              | 30 × 25     | 1.64                                     | 0.10                    | 0.237                   | 1.00                  | LSM561M2D--A3025 |
|                          | 680                              | 22 × 45     | 2.04                                     | 0.10                    | 0.195                   | 1.11                  | LSM681M2D--A2245 |
|                          | 680                              | 25 × 40     | 2.04                                     | 0.10                    | 0.195                   | 1.11                  | LSM681M2D--A2540 |
|                          | 680                              | 30 × 30     | 1.96                                     | 0.10                    | 0.195                   | 1.11                  | LSM681M2D--A3030 |
|                          | 820                              | 25 × 45     | 2.34                                     | 0.10                    | 0.162                   | 1.21                  | LSM821M2D--A2545 |
|                          | 820                              | 30 × 35     | 2.27                                     | 0.10                    | 0.162                   | 1.21                  | LSM821M2D--A3035 |

## Dimension and 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>200</b>               | 820                              | 35 × 25     | 1.99                                     | 0.15                    | 0.243                   | 1.21                  | LSM821M2D--A3525 |
|                          | 1,000                            | 25 × 50     | 2.26                                     | 0.10                    | 0.133                   | 1.34                  | LSM102M2D--A2550 |
|                          | 1,000                            | 30 × 40     | 2.63                                     | 0.10                    | 0.133                   | 1.34                  | LSM102M2D--A3040 |
|                          | 1,000                            | 35 × 30     | 2.51                                     | 0.15                    | 0.199                   | 1.34                  | LSM102M2D--A3530 |
|                          | 1,200                            | 30 × 45     | 3.00                                     | 0.10                    | 0.111                   | 1.47                  | LSM122M2D--A3045 |
|                          | 1,200                            | 35 × 35     | 2.92                                     | 0.15                    | 0.166                   | 1.47                  | LSM122M2D--A3535 |
|                          | 1,500                            | 30 × 50     | 3.36                                     | 0.10                    | 0.088                   | 1.50                  | LSM152M2D--A3050 |
|                          | 1,500                            | 35 × 40     | 3.34                                     | 0.15                    | 0.133                   | 1.50                  | LSM152M2D--A3540 |
|                          | 1,800                            | 30 × 60     | 3.64                                     | 0.10                    | 0.074                   | 1.50                  | LSM182M2D--A3060 |
|                          | 1,800                            | 35 × 45     | 3.51                                     | 0.15                    | 0.111                   | 1.50                  | LSM182M2D--A3545 |
| 2,200                    | 35 × 55                          | 4.01        | 0.15                                     | 0.090                   | 1.50                    | LSM222M2D--A3555      |                  |
| <b>250</b>               | 180                              | 22 × 25     | 0.77                                     | 0.10                    | 0.737                   | 0.64                  | LSM181M2E--A2225 |
|                          | 220                              | 20 × 30     | 0.87                                     | 0.10                    | 0.603                   | 0.70                  | LSM221M2E--A2030 |
|                          | 270                              | 20 × 35     | 1.03                                     | 0.10                    | 0.491                   | 0.78                  | LSM271M2E--A2035 |
|                          | 270                              | 22 × 30     | 1.02                                     | 0.10                    | 0.491                   | 0.78                  | LSM271M2E--A2230 |
|                          | 270                              | 25 × 25     | 1.08                                     | 0.10                    | 0.491                   | 0.78                  | LSM271M2E--A2525 |
|                          | 330                              | 20 × 40     | 1.21                                     | 0.10                    | 0.402                   | 0.86                  | LSM331M2E--A2040 |
|                          | 330                              | 22 × 35     | 1.20                                     | 0.10                    | 0.402                   | 0.86                  | LSM331M2E--A2235 |
|                          | 330                              | 25 × 30     | 1.27                                     | 0.10                    | 0.402                   | 0.86                  | LSM331M2E--A2530 |
|                          | 390                              | 20 × 50     | 1.45                                     | 0.10                    | 0.340                   | 0.94                  | LSM391M2E--A2050 |
|                          | 390                              | 22 × 40     | 1.38                                     | 0.10                    | 0.340                   | 0.94                  | LSM391M2E--A2240 |
|                          | 390                              | 25 × 35     | 1.46                                     | 0.10                    | 0.340                   | 0.94                  | LSM391M2E--A2535 |
|                          | 390                              | 30 × 25     | 1.39                                     | 0.10                    | 0.340                   | 0.94                  | LSM391M2E--A3025 |
|                          | 470                              | 22 × 45     | 1.46                                     | 0.10                    | 0.282                   | 1.03                  | LSM471M2E--A2245 |
|                          | 470                              | 25 × 40     | 1.69                                     | 0.10                    | 0.282                   | 1.03                  | LSM471M2E--A2540 |
|                          | 470                              | 30 × 30     | 1.63                                     | 0.10                    | 0.282                   | 1.03                  | LSM471M2E--A3030 |
|                          | 560                              | 25 × 45     | 1.93                                     | 0.10                    | 0.237                   | 1.12                  | LSM561M2E--A2545 |
|                          | 560                              | 35 × 25     | 1.78                                     | 0.15                    | 0.355                   | 1.12                  | LSM561M2E--A3525 |
|                          | 680                              | 25 × 50     | 2.04                                     | 0.10                    | 0.195                   | 1.24                  | LSM681M2E--A2550 |
|                          | 680                              | 30 × 35     | 2.06                                     | 0.10                    | 0.195                   | 1.24                  | LSM681M2E--A3035 |
|                          | 680                              | 35 × 30     | 2.06                                     | 0.15                    | 0.293                   | 1.24                  | LSM681M2E--A3530 |
|                          | 820                              | 30 × 45     | 2.48                                     | 0.10                    | 0.162                   | 1.36                  | LSM821M2E--A3045 |
|                          | 820                              | 35 × 35     | 2.41                                     | 0.15                    | 0.243                   | 1.36                  | LSM821M2E--A3535 |
|                          | 1,000                            | 30 × 50     | 2.65                                     | 0.10                    | 0.133                   | 1.50                  | LSM102M2E--A3050 |
|                          | 1,000                            | 35 × 40     | 2.76                                     | 0.15                    | 0.199                   | 1.50                  | LSM102M2E--A3540 |
|                          | 1,200                            | 30 × 60     | 3.15                                     | 0.10                    | 0.111                   | 1.50                  | LSM122M2E--A3060 |
|                          | 1,200                            | 35 × 45     | 3.14                                     | 0.15                    | 0.166                   | 1.50                  | LSM122M2E--A3545 |
|                          | 1,800                            | 35 × 60     | 3.97                                     | 0.15                    | 0.111                   | 1.50                  | LSM182M2E--A3560 |
|                          | <b>350</b>                       | 100         | 20 × 30                                  | 0.53                    | 0.15                    | 1.990                 | 0.56             |
| 100                      |                                  | 22 × 25     | 0.52                                     | 0.15                    | 1.990                   | 0.56                  | LSM101M2V--A2225 |
| 100                      |                                  | 25 × 20     | 0.52                                     | 0.15                    | 1.990                   | 0.56                  | LSM101M2V--A2520 |
| 120                      |                                  | 20 × 35     | 0.63                                     | 0.15                    | 1.659                   | 0.61                  | LSM121M2V--A2035 |
| 120                      |                                  | 22 × 30     | 0.62                                     | 0.15                    | 1.659                   | 0.61                  | LSM121M2V--A2230 |
| 120                      |                                  | 25 × 25     | 0.65                                     | 0.15                    | 1.659                   | 0.61                  | LSM121M2V--A2525 |
| 150                      |                                  | 20 × 40     | 0.74                                     | 0.15                    | 1.327                   | 0.69                  | LSM151M2V--A2040 |
| 150                      |                                  | 22 × 35     | 0.74                                     | 0.15                    | 1.327                   | 0.69                  | LSM151M2V--A2235 |
| 180                      |                                  | 20 × 45     | 0.81                                     | 0.15                    | 1.106                   | 0.75                  | LSM181M2V--A2045 |
| 180                      |                                  | 22 × 40     | 0.81                                     | 0.15                    | 1.106                   | 0.75                  | LSM181M2V--A2240 |
| 180                      |                                  | 25 × 30     | 0.77                                     | 0.15                    | 1.106                   | 0.75                  | LSM181M2V--A2530 |
| 180                      |                                  | 30 × 25     | 0.80                                     | 0.15                    | 1.106                   | 0.75                  | LSM181M2V--A3025 |
| 220                      |                                  | 20 × 50     | 0.94                                     | 0.15                    | 0.905                   | 0.83                  | LSM221M2V--A2050 |
| 220                      |                                  | 22 × 45     | 0.94                                     | 0.15                    | 0.905                   | 0.83                  | LSM221M2V--A2245 |
| 220                      |                                  | 25 × 35     | 0.91                                     | 0.15                    | 0.905                   | 0.83                  | LSM221M2V--A2535 |
| 270                      |                                  | 22 × 50     | 1.09                                     | 0.15                    | 0.737                   | 0.92                  | LSM271M2V--A2250 |
| 270                      |                                  | 25 × 40     | 1.06                                     | 0.15                    | 0.737                   | 0.92                  | LSM271M2V--A2540 |
| 270                      |                                  | 30 × 30     | 1.05                                     | 0.15                    | 0.737                   | 0.92                  | LSM271M2V--A3030 |
| 270                      |                                  | 35 × 25     | 1.08                                     | 0.15                    | 0.737                   | 0.92                  | LSM271M2V--A3525 |
| 330                      |                                  | 25 × 45     | 1.24                                     | 0.15                    | 0.603                   | 1.02                  | LSM331M2V--A2545 |
| 330                      |                                  | 30 × 35     | 1.24                                     | 0.15                    | 0.603                   | 1.02                  | LSM331M2V--A3035 |
| 330                      |                                  | 35 × 30     | 1.33                                     | 0.15                    | 0.603                   | 1.02                  | LSM331M2V--A3530 |
| 390                      |                                  | 30 × 40     | 1.42                                     | 0.15                    | 0.510                   | 1.11                  | LSM391M2V--A3040 |
| 390                      |                                  | 35 × 30     | 1.39                                     | 0.15                    | 0.510                   | 1.11                  | LSM391M2V--A3530 |
| 470                      |                                  | 30 × 45     | 1.56                                     | 0.15                    | 0.423                   | 1.22                  | LSM471M2V--A3045 |
| 470                      |                                  | 35 × 35     | 1.53                                     | 0.15                    | 0.423                   | 1.22                  | LSM471M2V--A3535 |
| 560                      |                                  | 30 × 50     | 1.78                                     | 0.15                    | 0.355                   | 1.33                  | LSM561M2V--A3050 |



## Dimension and 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>350</b>               | 560                              | 35 × 40     | 1.77                                     | 0.15                    | 0.355                   | 1.33                  | LSM561M2V--A3540 |
|                          | 680                              | 30 × 60     | 1.94                                     | 0.15                    | 0.293                   | 1.46                  | LSM681M2V--A3060 |
|                          | 680                              | 35 × 50     | 1.95                                     | 0.15                    | 0.293                   | 1.46                  | LSM681M2V--A3550 |
|                          | 820                              | 35 × 55     | 2.23                                     | 0.15                    | 0.243                   | 1.50                  | LSM821M2V--A3555 |
| <b>400</b>               | 56                               | 22 × 20     | 0.41                                     | 0.15                    | 3.554                   | 0.45                  | LSM560M2G--A2220 |
|                          | 68                               | 22 × 25     | 0.52                                     | 0.15                    | 2.927                   | 0.49                  | LSM680M2G--A2225 |
|                          | 68                               | 25 × 20     | 0.49                                     | 0.15                    | 2.927                   | 0.49                  | LSM680M2G--A2520 |
|                          | 82                               | 20 × 30     | 0.54                                     | 0.15                    | 2.427                   | 0.54                  | LSM820M2G--A2030 |
|                          | 100                              | 20 × 35     | 0.64                                     | 0.15                    | 1.990                   | 0.60                  | LSM101M2G--A2035 |
|                          | 100                              | 22 × 30     | 0.67                                     | 0.15                    | 1.990                   | 0.60                  | LSM101M2G--A2230 |
|                          | 120                              | 20 × 40     | 0.74                                     | 0.15                    | 1.659                   | 0.66                  | LSM121M2G--A2040 |
|                          | 120                              | 22 × 35     | 0.78                                     | 0.15                    | 1.659                   | 0.66                  | LSM121M2G--A2235 |
|                          | 120                              | 25 × 25     | 0.69                                     | 0.15                    | 1.659                   | 0.66                  | LSM121M2G--A2525 |
|                          | 150                              | 20 × 45     | 0.87                                     | 0.15                    | 1.327                   | 0.73                  | LSM151M2G--A2045 |
|                          | 150                              | 22 × 40     | 0.91                                     | 0.15                    | 1.327                   | 0.73                  | LSM151M2G--A2240 |
|                          | 150                              | 25 × 30     | 0.83                                     | 0.15                    | 1.327                   | 0.73                  | LSM151M2G--A2530 |
|                          | 150                              | 30 × 25     | 0.86                                     | 0.15                    | 1.327                   | 0.73                  | LSM151M2G--A3025 |
|                          | 180                              | 22 × 45     | 1.04                                     | 0.15                    | 1.106                   | 0.80                  | LSM181M2G--A2245 |
|                          | 180                              | 25 × 35     | 0.97                                     | 0.15                    | 1.106                   | 0.80                  | LSM181M2G--A2535 |
|                          | 220                              | 22 × 50     | 1.17                                     | 0.15                    | 0.905                   | 0.89                  | LSM221M2G--A2250 |
|                          | 220                              | 25 × 40     | 1.14                                     | 0.15                    | 0.905                   | 0.89                  | LSM221M2G--A2540 |
|                          | 220                              | 30 × 30     | 1.12                                     | 0.15                    | 0.905                   | 0.89                  | LSM221M2G--A3030 |
|                          | 220                              | 35 × 25     | 1.15                                     | 0.15                    | 0.905                   | 0.89                  | LSM221M2G--A3525 |
|                          | 270                              | 25 × 50     | 1.40                                     | 0.15                    | 0.737                   | 0.99                  | LSM271M2G--A2550 |
|                          | 270                              | 30 × 35     | 1.39                                     | 0.15                    | 0.737                   | 0.99                  | LSM271M2G--A3035 |
|                          | 270                              | 35 × 30     | 1.31                                     | 0.15                    | 0.737                   | 0.99                  | LSM271M2G--A3530 |
|                          | 330                              | 30 × 40     | 1.31                                     | 0.15                    | 0.603                   | 1.09                  | LSM331M2G--A3040 |
|                          | 330                              | 35 × 30     | 1.27                                     | 0.15                    | 0.603                   | 1.09                  | LSM331M2G--A3530 |
|                          | 390                              | 30 × 45     | 1.49                                     | 0.15                    | 0.510                   | 1.18                  | LSM391M2G--A3045 |
|                          | 390                              | 35 × 35     | 1.47                                     | 0.15                    | 0.510                   | 1.18                  | LSM391M2G--A3535 |
|                          | 470                              | 30 × 50     | 1.72                                     | 0.15                    | 0.423                   | 1.30                  | LSM471M2G--A3050 |
|                          | 470                              | 35 × 40     | 1.71                                     | 0.15                    | 0.423                   | 1.30                  | LSM471M2G--A3540 |
|                          | 560                              | 30 × 60     | 2.03                                     | 0.15                    | 0.355                   | 1.42                  | LSM561M2G--A3060 |
|                          | 560                              | 35 × 45     | 2.23                                     | 0.15                    | 0.355                   | 1.42                  | LSM561M2G--A3545 |
|                          | 680                              | 35 × 55     | 2.31                                     | 0.15                    | 0.293                   | 1.50                  | LSM681M2G--A3555 |
|                          | 820                              | 35 × 60     | 2.54                                     | 0.15                    | 0.243                   | 1.50                  | LSM821M2G--A3560 |
| <b>420</b>               | 56                               | 20 × 25     | 0.41                                     | 0.15                    | 3.554                   | 0.46                  | LSM560M2P--A2025 |
|                          | 56                               | 22 × 20     | 0.40                                     | 0.15                    | 3.554                   | 0.46                  | LSM560M2P--A2220 |
|                          | 68                               | 20 × 30     | 0.49                                     | 0.15                    | 2.927                   | 0.51                  | LSM680M2P--A2030 |
|                          | 68                               | 22 × 25     | 0.48                                     | 0.15                    | 2.927                   | 0.51                  | LSM680M2P--A2225 |
|                          | 82                               | 20 × 30     | 0.54                                     | 0.15                    | 2.427                   | 0.56                  | LSM820M2P--A2030 |
|                          | 82                               | 22 × 25     | 0.53                                     | 0.15                    | 2.427                   | 0.56                  | LSM820M2P--A2225 |
|                          | 100                              | 20 × 35     | 0.64                                     | 0.15                    | 1.990                   | 0.61                  | LSM101M2P--A2035 |
|                          | 100                              | 22 × 30     | 0.63                                     | 0.15                    | 1.990                   | 0.61                  | LSM101M2P--A2230 |
|                          | 100                              | 25 × 25     | 0.63                                     | 0.15                    | 1.990                   | 0.61                  | LSM101M2P--A2525 |
|                          | 120                              | 20 × 40     | 0.74                                     | 0.15                    | 1.659                   | 0.67                  | LSM121M2P--A2040 |
|                          | 120                              | 22 × 35     | 0.74                                     | 0.15                    | 1.659                   | 0.67                  | LSM121M2P--A2235 |
|                          | 120                              | 25 × 30     | 0.78                                     | 0.15                    | 1.659                   | 0.67                  | LSM121M2P--A2530 |
|                          | 150                              | 20 × 50     | 0.92                                     | 0.15                    | 1.327                   | 0.75                  | LSM151M2P--A2050 |
|                          | 150                              | 22 × 40     | 0.87                                     | 0.15                    | 1.327                   | 0.75                  | LSM151M2P--A2240 |
|                          | 150                              | 30 × 25     | 0.80                                     | 0.15                    | 1.327                   | 0.75                  | LSM151M2P--A3025 |
|                          | 180                              | 22 × 45     | 0.93                                     | 0.15                    | 1.106                   | 0.82                  | LSM181M2P--A2245 |
|                          | 180                              | 25 × 35     | 0.90                                     | 0.15                    | 1.106                   | 0.82                  | LSM181M2P--A2535 |
|                          | 180                              | 30 × 30     | 0.98                                     | 0.15                    | 1.106                   | 0.82                  | LSM181M2P--A3030 |
|                          | 220                              | 25 × 45     | 1.01                                     | 0.15                    | 0.905                   | 0.91                  | LSM221M2P--A2545 |
|                          | 220                              | 30 × 35     | 1.05                                     | 0.15                    | 0.905                   | 0.91                  | LSM221M2P--A3035 |
|                          | 220                              | 35 × 25     | 0.97                                     | 0.15                    | 0.905                   | 0.91                  | LSM221M2P--A3525 |
|                          | 270                              | 25 × 50     | 1.17                                     | 0.15                    | 0.737                   | 1.01                  | LSM271M2P--A2550 |
|                          | 270                              | 30 × 40     | 1.22                                     | 0.15                    | 0.737                   | 1.01                  | LSM271M2P--A3040 |
|                          | 270                              | 35 × 30     | 1.15                                     | 0.15                    | 0.737                   | 1.01                  | LSM271M2P--A3530 |
|                          | 330                              | 30 × 45     | 1.37                                     | 0.15                    | 0.603                   | 1.12                  | LSM331M2P--A3045 |
|                          | 330                              | 35 × 35     | 1.35                                     | 0.15                    | 0.603                   | 1.12                  | LSM331M2P--A3535 |
|                          | 390                              | 30 × 50     | 1.56                                     | 0.15                    | 0.510                   | 1.21                  | LSM391M2P--A3050 |
| 390                      | 35 × 40                          | 1.55        | 0.15                                     | 0.510                   | 1.21                    | LSM391M2P--A3540      |                  |
| 470                      | 30 × 60                          | 1.76        | 0.15                                     | 0.423                   | 1.33                    | LSM471M2P--A3060      |                  |





## Dimension and 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>420</b>               | 470                              | 35 × 45     | 1.70                                     | 0.15                    | 0.423                   | 1.33                  | LSM471M2P--A3545 |
|                          | 560                              | 35 × 50     | 1.94                                     | 0.15                    | 0.355                   | 1.45                  | LSM561M2P--A3550 |
|                          | 680                              | 35 × 60     | 2.31                                     | 0.15                    | 0.293                   | 1.50                  | LSM681M2P--A3560 |
| <b>450</b>               | 56                               | 20 × 25     | 0.41                                     | 0.15                    | 3.554                   | 0.48                  | LSM560M2W--A2025 |
|                          | 82                               | 20 × 30     | 0.54                                     | 0.15                    | 2.427                   | 0.58                  | LSM820M2W--A2030 |
|                          | 82                               | 25 × 25     | 0.57                                     | 0.15                    | 2.427                   | 0.58                  | LSM820M2W--A2525 |
|                          | 100                              | 20 × 45     | 0.71                                     | 0.15                    | 1.990                   | 0.64                  | LSM101M2W--A2045 |
|                          | 100                              | 22 × 35     | 0.67                                     | 0.15                    | 1.990                   | 0.64                  | LSM101M2W--A2235 |
|                          | 120                              | 20 × 50     | 0.82                                     | 0.15                    | 1.659                   | 0.70                  | LSM121M2W--A2050 |
|                          | 120                              | 22 × 40     | 0.78                                     | 0.15                    | 1.659                   | 0.70                  | LSM121M2W--A2240 |
|                          | 120                              | 25 × 30     | 0.74                                     | 0.15                    | 1.659                   | 0.70                  | LSM121M2W--A2530 |
|                          | 120                              | 30 × 25     | 0.77                                     | 0.15                    | 1.659                   | 0.70                  | LSM121M2W--A3025 |
|                          | 150                              | 22 × 45     | 0.92                                     | 0.15                    | 1.327                   | 0.78                  | LSM151M2W--A2245 |
|                          | 150                              | 25 × 35     | 0.89                                     | 0.15                    | 1.327                   | 0.78                  | LSM151M2W--A2535 |
|                          | 150                              | 30 × 30     | 0.93                                     | 0.15                    | 1.327                   | 0.78                  | LSM151M2W--A3030 |
|                          | 150                              | 35 × 25     | 0.95                                     | 0.15                    | 1.327                   | 0.78                  | LSM151M2W--A3525 |
|                          | 180                              | 22 × 50     | 1.06                                     | 0.15                    | 1.106                   | 0.85                  | LSM181M2W--A2250 |
|                          | 180                              | 25 × 40     | 1.03                                     | 0.15                    | 1.106                   | 0.85                  | LSM181M2W--A2540 |
|                          | 180                              | 30 × 30     | 1.01                                     | 0.15                    | 1.106                   | 0.85                  | LSM181M2W--A3030 |
|                          | 180                              | 35 × 25     | 1.04                                     | 0.15                    | 1.106                   | 0.85                  | LSM181M2W--A3525 |
|                          | 220                              | 25 × 45     | 1.18                                     | 0.15                    | 0.905                   | 0.94                  | LSM221M2W--A2545 |
|                          | 220                              | 30 × 35     | 1.18                                     | 0.15                    | 0.905                   | 0.94                  | LSM221M2W--A3035 |
|                          | 220                              | 35 × 30     | 1.22                                     | 0.15                    | 0.905                   | 0.94                  | LSM221M2W--A3530 |
|                          | 270                              | 30 × 40     | 1.17                                     | 0.15                    | 0.737                   | 1.05                  | LSM271M2W--A3040 |
|                          | 330                              | 30 × 50     | 1.42                                     | 0.15                    | 0.603                   | 1.16                  | LSM331M2W--A3050 |
| 330                      | 35 × 35                          | 1.64        | 0.15                                     | 0.603                   | 1.16                    | LSM331M2W--A3535      |                  |
| 390                      | 35 × 40                          | 1.54        | 0.15                                     | 0.510                   | 1.26                    | LSM391M2W--A3540      |                  |
| 470                      | 35 × 50                          | 1.85        | 0.15                                     | 0.423                   | 1.38                    | LSM471M2W--A3550      |                  |
| 560                      | 35 × 50                          | 2.02        | 0.15                                     | 0.355                   | 1.50                    | LSM561M2W--A3550      |                  |
| <b>500</b>               | 82                               | 22 × 35     | 0.68                                     | 0.15                    | 2.427                   | 0.61                  | LSM820M2H--A2235 |
|                          | 82                               | 25 × 35     | 0.73                                     | 0.15                    | 2.427                   | 0.61                  | LSM820M2H--A2535 |
|                          | 100                              | 22 × 40     | 0.79                                     | 0.15                    | 1.990                   | 0.67                  | LSM101M2H--A2240 |
|                          | 100                              | 25 × 40     | 0.85                                     | 0.15                    | 1.990                   | 0.67                  | LSM101M2H--A2540 |
|                          | 100                              | 30 × 35     | 1.20                                     | 0.15                    | 1.990                   | 0.67                  | LSM101M2H--A3035 |
|                          | 120                              | 22 × 45     | 0.91                                     | 0.15                    | 1.659                   | 0.73                  | LSM121M2H--A2245 |
|                          | 120                              | 25 × 45     | 0.98                                     | 0.15                    | 1.659                   | 0.73                  | LSM121M2H--A2545 |
|                          | 150                              | 22 × 50     | 1.07                                     | 0.15                    | 1.327                   | 0.82                  | LSM151M2H--A2250 |
|                          | 150                              | 25 × 55     | 1.20                                     | 0.15                    | 1.327                   | 0.82                  | LSM151M2H--A2555 |
|                          | 220                              | 30 × 40     | 1.40                                     | 0.15                    | 0.905                   | 0.99                  | LSM221M2H--A3040 |
|                          | 270                              | 35 × 35     | 1.61                                     | 0.15                    | 0.737                   | 1.10                  | LSM271M2H--A3535 |
|                          | 330                              | 35 × 40     | 1.88                                     | 0.15                    | 0.603                   | 1.22                  | LSM331M2H--A3540 |
|                          | 390                              | 35 × 45     | 2.15                                     | 0.15                    | 0.510                   | 1.32                  | LSM391M2H--A3545 |

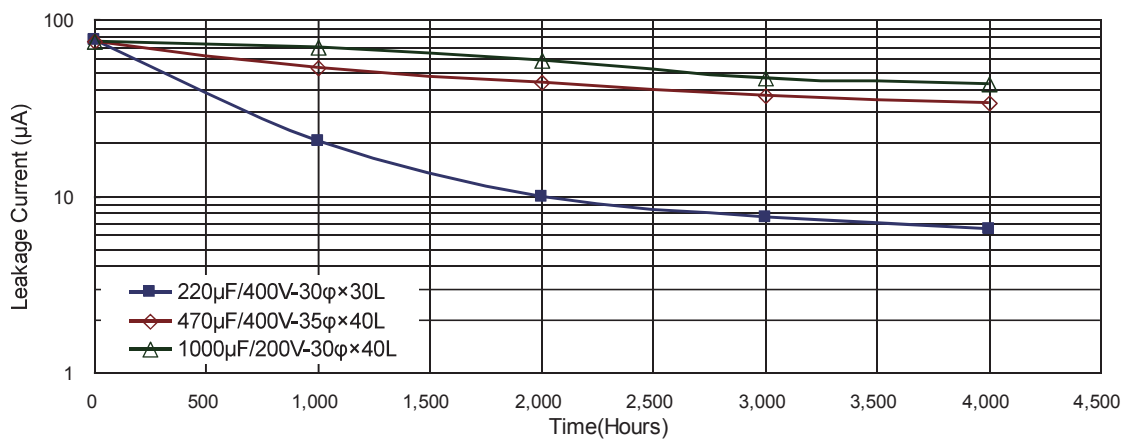
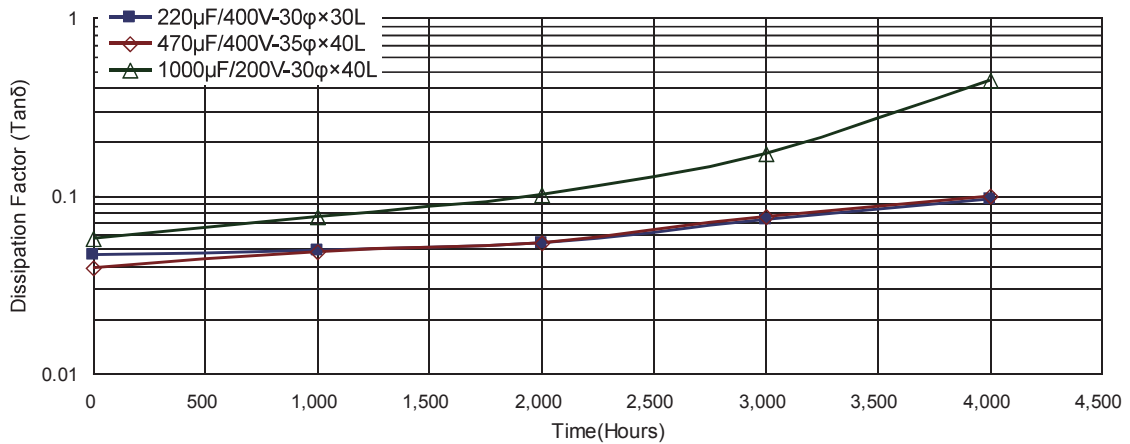
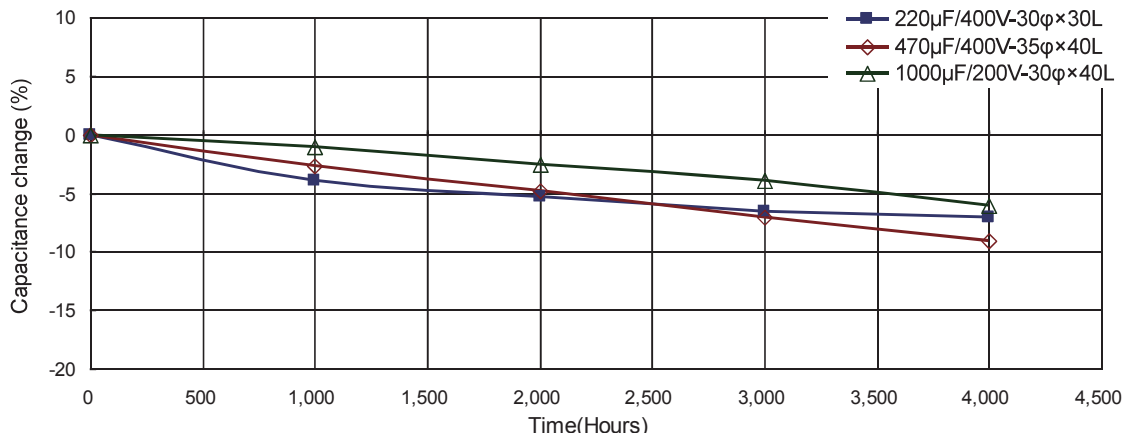
## Part Numbering System

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

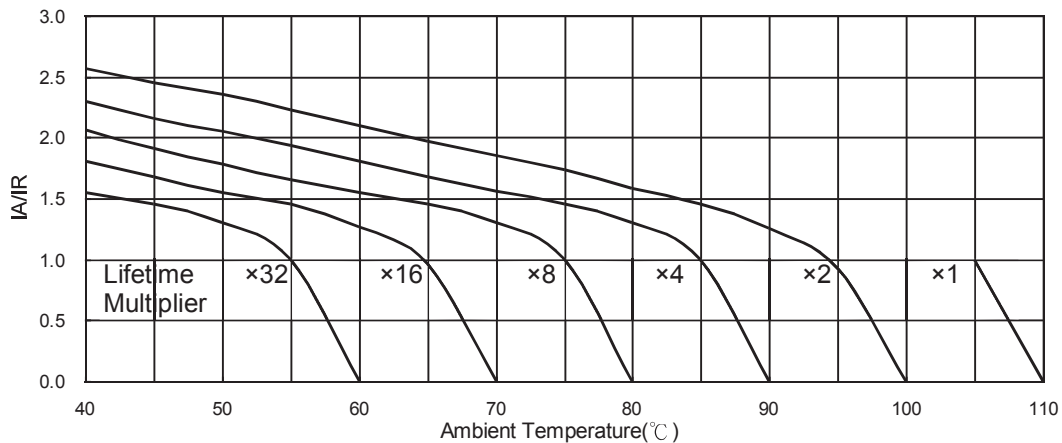
Note: For more details, please refer to "Part Numbering System (Snap-in Type)" on page 16.

Snap-in

## Typical Endurance Curves



## Useful Life Chart



IA: Actual ripple current    IR: Rated ripple current

All product specifications in the catalog are subject to change without notice. (CAT. 2017E1)





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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