



## LSM Series

### Features

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



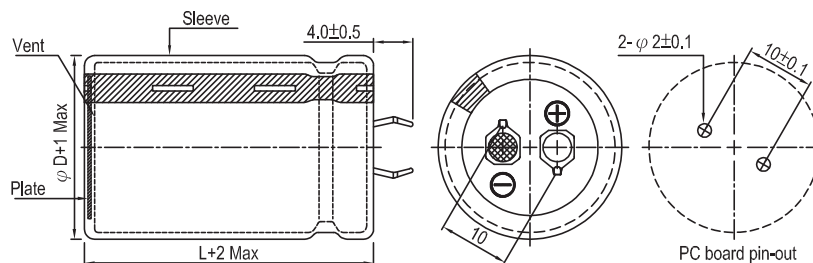
Sleeve & Marking Color: Black & White

### Specifications

|                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                   |      |           |      |      |      |      |                                                            |        |       |      |      |      |      |      |                |           |    |           |    |     |    |     |     |        |     |            |     |     |     |     |                    |                              |      |      |      |      |      |      |       |       |       |      |      |      |      |      |      |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                 |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------|-----------|------|------|------|------|------------------------------------------------------------|--------|-------|------|------|------|------|------|----------------|-----------|----|-----------|----|-----|----|-----|-----|--------|-----|------------|-----|-----|-----|-----|--------------------|------------------------------|------|------|------|------|------|------|-------|-------|-------|------|------|------|------|------|------|-----------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----------------|------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Items                                                                                                                                                                                                                                                                | Performance                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                   |      |           |      |      |      |      |                                                            |        |       |      |      |      |      |      |                |           |    |           |    |     |    |     |     |        |     |            |     |     |     |     |                    |                              |      |      |      |      |      |      |       |       |       |      |      |      |      |      |      |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                 |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Category Temperature Range                                                                                                                                                                                                                                           | 16 ~ 100V                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |      |           |      |      |      |      | 160 ~ 500V                                                 |        |       |      |      |      |      |      |                |           |    |           |    |     |    |     |     |        |     |            |     |     |     |     |                    |                              |      |      |      |      |      |      |       |       |       |      |      |      |      |      |      |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                 |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                      | -40℃ ~ +105℃                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                   |      |           |      |      |      |      | -25℃ ~ +105℃                                               |        |       |      |      |      |      |      |                |           |    |           |    |     |    |     |     |        |     |            |     |     |     |     |                    |                              |      |      |      |      |      |      |       |       |       |      |      |      |      |      |      |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                 |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Capacitance Tolerance                                                                                                                                                                                                                                                | ±20% (at 120Hz, 20℃)                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                   |      |           |      |      |      |      |                                                            |        |       |      |      |      |      |      |                |           |    |           |    |     |    |     |     |        |     |            |     |     |     |     |                    |                              |      |      |      |      |      |      |       |       |       |      |      |      |      |      |      |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                 |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Leakage Current (at 20℃)                                                                                                                                                                                                                                             | I = $3\sqrt{CV}$ or 1.5 mA whichever is smaller (after 5 minutes)<br>Where, C = rated capacitance in μF, V = rated DC working voltage in V                                                                                                                                                                                                                                                                                                                     |                                   |      |           |      |      |      |      |                                                            |        |       |      |      |      |      |      |                |           |    |           |    |     |    |     |     |        |     |            |     |     |     |     |                    |                              |      |      |      |      |      |      |       |       |       |      |      |      |      |      |      |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                 |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Tanδ (at 120Hz, 20℃)                                                                                                                                                                                                                                                 | <table><tr><td>Rated Voltage</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>80</td><td>100</td><td>160</td><td>200</td><td>250</td><td>350</td><td>400</td><td>420</td><td>450</td><td>500</td></tr><tr><td>Tanδ (max)</td><td>0.50</td><td>0.45</td><td>0.40</td><td>0.35</td><td>0.30</td><td>0.25</td><td>0.20</td><td>0.10*</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></table> |                                   |      |           |      |      |      |      |                                                            |        |       |      |      |      |      |      | Rated Voltage  | 16        | 25 | 35        | 50 | 63  | 80 | 100 | 160 | 200    | 250 | 350        | 400 | 420 | 450 | 500 | Tanδ (max)         | 0.50                         | 0.45 | 0.40 | 0.35 | 0.30 | 0.25 | 0.20 | 0.10* | 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 |                |           |    |           |    |     |    |     |     |        |     |            |     |     |     |     |                    |                              |      |      |      |      |      |      |       |       |       |      |      |      |      |      |      |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                 |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *: 0.15 for ϕD = 35mm                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                   |      |           |      |      |      |      |                                                            |        |       |      |      |      |      |      |                |           |    |           |    |     |    |     |     |        |     |            |     |     |     |     |                    |                              |      |      |      |      |      |      |       |       |       |      |      |      |      |      |      |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                 |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Low Temperature Characteristics (at 120Hz)                                                                                                                                                                                                                           | Impedance ratio shall not exceed the values given in the table below.                                                                                                                                                                                                                                                                                                                                                                                          |                                   |      |           |      |      |      |      |                                                            |        |       |      |      |      |      |      |                |           |    |           |    |     |    |     |     |        |     |            |     |     |     |     |                    |                              |      |      |      |      |      |      |       |       |       |      |      |      |      |      |      |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                 |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                      | Rated Voltage                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                   | 16   | 25        | 35   | 50   | 63   | 80   | 100                                                        | 160    | 200   | 250  | 350  | 400  | 420  | 450  | 500            |           |    |           |    |     |    |     |     |        |     |            |     |     |     |     |                    |                              |      |      |      |      |      |      |       |       |       |      |      |      |      |      |      |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                 |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                      | Impedance Ratio                                                                                                                                                                                                                                                                                                                                                                                                                                                | Z(-25℃)/<br>Z(+20℃)               | 4    | 3         | 3    | 2    | 2    | 2    | 2                                                          | 4      | 4     | 4    | 4    | 8    | 8    | 8    | 8              |           |    |           |    |     |    |     |     |        |     |            |     |     |     |     |                    |                              |      |      |      |      |      |      |       |       |       |      |      |      |      |      |      |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                 |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Z(-40℃)/<br>Z(+20℃)                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 15                                | 10   | 8         | 6    | 6    | 6    | 5    | -                                                          | -      | -     | -    | -    | -    | -    | -    |                |           |    |           |    |     |    |     |     |        |     |            |     |     |     |     |                    |                              |      |      |      |      |      |      |       |       |       |      |      |      |      |      |      |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                 |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Endurance                                                                                                                                                                                                                                                            | <table><tr><td>Test Time</td><td colspan="15">3,000 Hrs</td></tr><tr><td>Capacitance Change</td><td colspan="15">Within ±20% of initial value</td></tr><tr><td>Tanδ</td><td colspan="15">Less than 200% of specified value</td></tr><tr><td>Leakage Current</td><td colspan="15">Within specified value</td></tr></table>                                                                                                                                      |                                   |      |           |      |      |      |      |                                                            |        |       |      |      |      |      |      | 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            |      |           |      |      |      |      |                                                            |        |       |      |      |      |      |      |                |           |    |           |    |     |    |     |     |        |     |            |     |     |     |     |                    |                              |      |      |      |      |      |      |       |       |       |      |      |      |      |      |      |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                 |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| * The above specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage applied with rated ripple current for 3,000 hours at 105℃.                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                   |      |           |      |      |      |      |                                                            |        |       |      |      |      |      |      |                |           |    |           |    |     |    |     |     |        |     |            |     |     |     |     |                    |                              |      |      |      |      |      |      |       |       |       |      |      |      |      |      |      |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                 |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Shelf Life Test                                                                                                                                                                                                                                                      | <table><tr><td>Test Time</td><td colspan="15">1,000 Hrs</td></tr><tr><td>Capacitance Change</td><td colspan="15">Within ±20% of initial value</td></tr><tr><td>Tanδ</td><td colspan="15">Less than 150% of specified value</td></tr><tr><td>Leakage Current</td><td colspan="15">Within specified value</td></tr></table>                                                                                                                                      |                                   |      |           |      |      |      |      |                                                            |        |       |      |      |      |      |      | Test Time      | 1,000 Hrs |    |           |    |     |    |     |     |        |     |            |     |     |     |     | Capacitance Change | Within ±20% of initial value |      |      |      |      |      |      |       |       |       |      |      |      |      |      | Tanδ | Less than 150% of specified value |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Leakage Current | Within specified value |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                      | Test Time                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1,000 Hrs                         |      |           |      |      |      |      |                                                            |        |       |      |      |      |      |      |                |           |    |           |    |     |    |     |     |        |     |            |     |     |     |     |                    |                              |      |      |      |      |      |      |       |       |       |      |      |      |      |      |      |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                 |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                      | Capacitance Change                                                                                                                                                                                                                                                                                                                                                                                                                                             | Within ±20% of initial value      |      |           |      |      |      |      |                                                            |        |       |      |      |      |      |      |                |           |    |           |    |     |    |     |     |        |     |            |     |     |     |     |                    |                              |      |      |      |      |      |      |       |       |       |      |      |      |      |      |      |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                 |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                      | Tanδ                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Less than 150% of specified value |      |           |      |      |      |      |                                                            |        |       |      |      |      |      |      |                |           |    |           |    |     |    |     |     |        |     |            |     |     |     |     |                    |                              |      |      |      |      |      |      |       |       |       |      |      |      |      |      |      |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                 |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                      | Leakage Current                                                                                                                                                                                                                                                                                                                                                                                                                                                | Within specified value            |      |           |      |      |      |      |                                                            |        |       |      |      |      |      |      |                |           |    |           |    |     |    |     |     |        |     |            |     |     |     |     |                    |                              |      |      |      |      |      |      |       |       |       |      |      |      |      |      |      |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                 |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| * The above specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 1,000 hours at 105℃ without voltage applied. The rated voltage shall be applied to the capacitors before the measurements (Refer to JIS C 5101-4 4.1). |                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                   |      |           |      |      |      |      |                                                            |        |       |      |      |      |      |      |                |           |    |           |    |     |    |     |     |        |     |            |     |     |     |     |                    |                              |      |      |      |      |      |      |       |       |       |      |      |      |      |      |      |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                 |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ripple Current and Frequency Multipliers                                                                                                                                                                                                                             | <table><tr><td>Frequency (Hz)</td><td colspan="2">50 / 60</td><td colspan="2">100 / 120</td><td colspan="2">300</td><td colspan="2">1k</td><td colspan="2">10k up</td></tr><tr><td>Multiplier</td><td colspan="2">0.8</td><td colspan="2">1.0</td><td colspan="2">1.1</td><td colspan="2">1.3</td><td colspan="2">1.4</td></tr></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<br>Failure rate                                                                                                                                                                                                                                   | ≤ 3 % (During useful life)                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                   |      |           |      |      |      |      |                                                            |        |       |      |      |      |      |      |                |           |    |           |    |     |    |     |     |        |     |            |     |     |     |     |                    |                              |      |      |      |      |      |      |       |       |       |      |      |      |      |      |      |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                 |                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                      | 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      |
|--------------------------|----------------------------------|-------------|------------------------------------------|-------------------------|-------------------------|-----------------------|------------------|
| 16                       | 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 |
| 25                       | 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 |
| 35                       | 2,200                            | 22 × 25     | 1.14                                     | 0.40                    | 0.241                   | 0.83                  | LSM222M1V--A2225 |
|                          | 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 |
| 50                       | 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 |
| 63                       | 1,000                            | 20 × 20     | 0.90                                     | 0.30                    | 0.398                   | 0.75                  | LSM102M1J--A2020 |
|                          | 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      |
|--------------------------|----------------------------------|-------------|------------------------------------------|-------------------------|-------------------------|-----------------------|------------------|
| 100                      | 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 |
| 160                      | 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 |
| 200                      | 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                  | LSM101M2V--A2030 |
|                          | 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

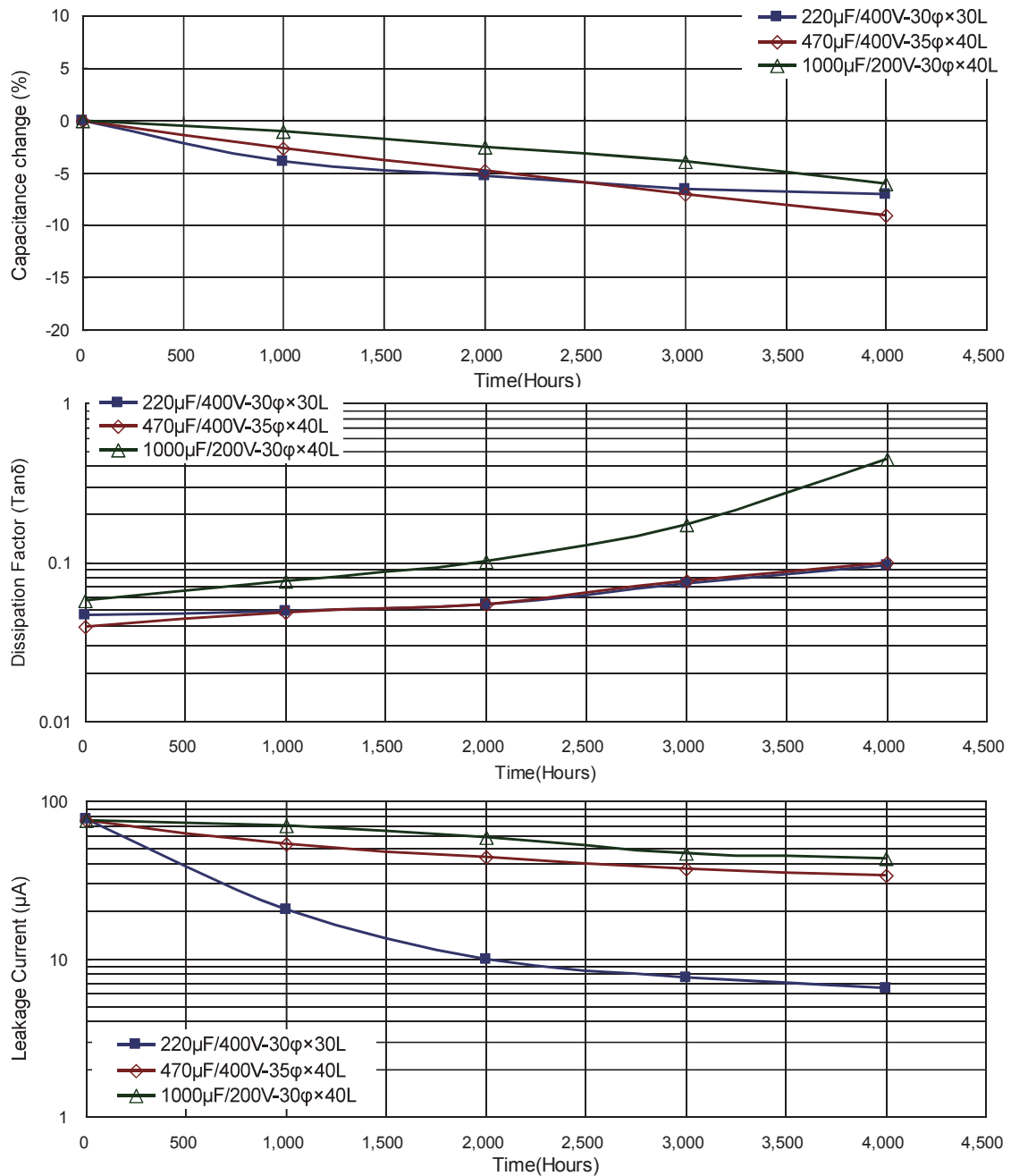
| Working Voltage<br>V. DC | Capacitance<br>120Hz, 20°C<br>μF | φ D×L<br>mm | Ripple Current<br>120 Hz, 105°C<br>A/rms | Tan δ<br>at 120Hz, 20°C | ESR<br>120Hz, 20°C<br>Ω | LC<br>5 minutes<br>mA | Part Number      |
|--------------------------|----------------------------------|-------------|------------------------------------------|-------------------------|-------------------------|-----------------------|------------------|
| <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<br>tolerance | Rated voltage | Terminal type | Terminal length | Case size   | Terminal and Sleeve<br>Type      |
| Example:    |             |                          |               |               |                 |             |                                  |
| Cap.        | Symbol      | M = ±20%<br>K = ±10%     | WV            | Type          | "-": 6.3±1.0 mm | φ D×L       | Code                             |
| 56          | 560         |                          | 400           | 2 pins        |                 | 22×30       | 2230                             |
| 220         | 221         |                          | 450           | 5 pins        |                 | 25×25       | 2525                             |
| 470         | 471         |                          |               |               |                 | 30×40       | 3040                             |

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

## Typical Endurance Curves



## Useful Life Chart

