

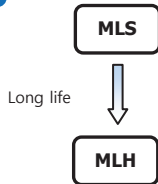


MLS series

Standard

RoHS compliant

- 85°C 2,000Hrs assured.
- Non-Solvent Proof
- For CAR-Audio, Tuner
- Halogen-free capacitors are also available.

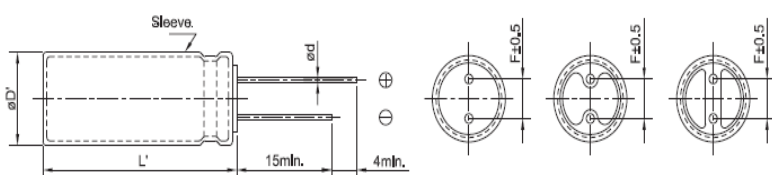


Specifications

| Item | Characteristics | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------|-----------------|------|----------|---------|----------|---------|----------|--------------------|-----------|-----------|----|----|----|----|--------|-----|---------|---------|------------------|------|------|------|------|------|------|------|------|------|------|------------------|----|----|---|---|---|---|---|---|---|---|
| Rated Voltage Range | 6.3 ~ 100VDC | 160 ~ 500VDC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Operating Temperature Range | -40 ~ +85°C | -25 ~ +85°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capacitance Tolerance | ±20% (M) (at 20°C, 120Hz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leakage Current | After 1 minute: 0.03 CV(μA) or 4μA, whichever is greater | <table border="1"> <tr> <th colspan="2">After 1 minute</th> <th colspan="2">After 5 minutes</th> </tr> <tr> <th>Cv≤1,000</th> <th>Cv>1,00</th> <th>Cv≤1,000</th> <th>Cv>1,00</th> </tr> <tr> <td>0.1cv+40</td> <td>0.04cv+100</td> <td>0.03cv+15</td> <td>0.02cv+25</td> </tr> </table> | After 1 minute | | After 5 minutes | | Cv≤1,000 | Cv>1,00 | Cv≤1,000 | Cv>1,00 | 0.1cv+40 | 0.04cv+100 | 0.03cv+15 | 0.02cv+25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | After 1 minute | | After 5 minutes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cv≤1,000 | Cv>1,00 | Cv≤1,000 | Cv>1,00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.1cv+40 | 0.04cv+100 | 0.03cv+15 | 0.02cv+25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | After 2 minute: 0.03 CV(μA) or 3μA, whichever is greater | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Where, C: Nominal capacitance(μF), V: Rated voltage(VDC) (at 20°C, 2 minutes) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dissipation Factor(Tanδ) | <table border="1"> <tr> <th>Rated Voltage(VDC)</th> <td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>100</td><td>160-250</td><td>350-500</td> </tr> <tr> <th>Tanδ(Max.)</th> <td>0.34</td><td>0.24</td><td>0.20</td><td>0.16</td><td>0.14</td><td>0.12</td><td>0.10</td><td>0.09</td><td>0.20</td><td>0.24</td> </tr> </table> | | | | | | | | | | | Rated Voltage(VDC) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | 160-250 | 350-500 | Tanδ(Max.) | 0.34 | 0.24 | 0.20 | 0.16 | 0.14 | 0.12 | 0.10 | 0.09 | 0.20 | 0.24 | | | | | | | | | | | |
| | Rated Voltage(VDC) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | 160-250 | 350-500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tanδ(Max.) | 0.34 | 0.24 | 0.20 | 0.16 | 0.14 | 0.12 | 0.10 | 0.09 | 0.20 | 0.24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | When the capacitance exceeds 1,000μF, 0.02 shall be added every 1,000μF increase. (at 20°C, 120Hz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Temperature characteristics (Max. impedance ratio) | <table border="1"> <tr> <th>Rated Voltage(VDC)</th> <td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63-100</td><td>160</td><td>200-250</td><td>350-500</td> </tr> <tr> <th>Z(-25°C)/Z(20°C)</th> <td>5</td><td>4</td><td>3</td><td>2</td><td>2</td><td>2</td><td>3</td><td>4</td><td>8</td><td>16</td> </tr> <tr> <th>Z(-40°C)/Z(20°C)</th> <td>12</td><td>10</td><td>8</td><td>5</td><td>4</td><td>3</td><td>4</td><td>-</td><td>-</td><td>-</td> </tr> </table> | | | | | | | | | | | Rated Voltage(VDC) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63-100 | 160 | 200-250 | 350-500 | Z(-25°C)/Z(20°C) | 5 | 4 | 3 | 2 | 2 | 2 | 3 | 4 | 8 | 16 | Z(-40°C)/Z(20°C) | 12 | 10 | 8 | 5 | 4 | 3 | 4 | - | - | - |
| | Rated Voltage(VDC) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63-100 | 160 | 200-250 | 350-500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Z(-25°C)/Z(20°C) | 5 | 4 | 3 | 2 | 2 | 2 | 3 | 4 | 8 | 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Z(-40°C)/Z(20°C) | 12 | 10 | 8 | 5 | 4 | 3 | 4 | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | (at 120Hz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Load life | The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 2,000 hours at 85°C. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Capacitance change ≤ ±20% of the initial value Tanδ ≤ 200% of the initial specified value Leakage current ≤ The initial specified value | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Shelf life | The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 85°C without voltage applied. The rated voltage shall be applied to the capacitors for a minimum of 30 minutes, at least 24 hours and not more than 48 hours before the measurements. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Capacitance change ≤ ±20% of the initial value Tanδ ≤ 200% of the initial specified value Leakage current ≤ The initial specified value (where, 200% for ≥ WV 160 VDC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Dimension (CE04 Type)

Unit (mm)

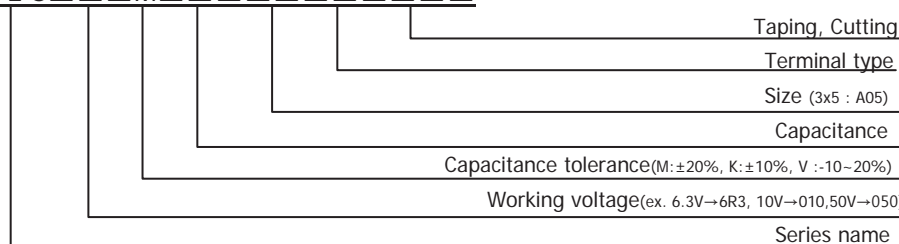


| ØD | 5 | 6.3 | 8 | 10 | 12.5 | 16 | 18 | 22 |
|-----|-------------|-----|-----|-----|------------|-----|-----|------|
| Ød | 0.5 | 0.5 | 0.6 | 0.6 | 0.6 | 0.8 | 0.8 | 0.8 |
| F | 2.0 | 2.5 | 3.5 | 5.0 | 5.0 | 7.5 | 7.5 | 10.0 |
| ØD' | ØD+0.5 max. | | | | | | | |
| L' | L+1.5 max. | | | | L+2.0 max. | | | |

- Printed white color letter on PET/PVC black sleeve

Code numbering system

※ Ø8 X 9L, ØD' ≤ D+0.5 and L ≤ L+1.0



| | |
|-------|---|
| Ø5 | D |
| Ø6.3 | E |
| Ø8 | F |
| Ø10 | G |
| Ø12.5 | X |
| Ø16 | J |
| Ø18 | K |
| Ø22 | M |



MLS series ■ Standard Rating

| VV (Vdc) | Cap (uF) | Size ØxL (mm) | Tanδ | Ripple Current (mA _{RMS} , 85°C, 120Hz) | Code No |
|----------|-----------|---------------|-------|--------------------------------------------------|--------------------|
| 6.3 | 33 | 5 x 11 | 0.34 | 41 | MLS6R3□330D11CS□□□ |
| | 47 | 5 x 11 | 0.34 | 59 | MLS6R3□470D11CS□□□ |
| | 68 | 5 x 11 | 0.34 | 90 | MLS6R3□680D11CS□□□ |
| | 100 | 5 x 11 | 0.34 | 135 | MLS6R3□101D11CS□□□ |
| | 220 | 5 x 11 | 0.34 | 211 | MLS6R3□221D11CS□□□ |
| | 330 | 6.3 x 11 | 0.34 | 297 | MLS6R3□331E11CS□□□ |
| | | 8 x 9 | 0.34 | 170 | MLS6R3□331F09CS□□□ |
| | 470 | 8 x 11.5 | 0.34 | 355 | MLS6R3□471F12CS□□□ |
| | | 8 x 9 | 0.34 | 241 | MLS6R3□471F09CS□□□ |
| | 680 | 8 x 11.5 | 0.34 | 503 | MLS6R3□681F12CS□□□ |
| | 1,000 | 10 x 16 | 0.34 | 610 | MLS6R3□102G16CS□□□ |
| | 2,200 | 10 x 20 | 0.34 | 1,059 | MLS6R3□222G20CS□□□ |
| | 3,300 | 10 x 20 | 0.34 | 1,350 | MLS6R3□332G20CS□□□ |
| | 4,700 | 12.5 x 20 | 0.34 | 1,822 | MLS6R3□472X20CS□□□ |
| | 6,800 | 12.5 x 20 | 0.34 | 2,235 | MLS6R3□682X20CS□□□ |
| 10,000 | 16 x 25 | 0.34 | 2,760 | MLS6R3□103J25CS□□□ | |
| 15,000 | 16 x 31.5 | 0.34 | 3,453 | MLS6R3□153J32CS□□□ | |
| 10 | 22 | 5 x 11 | 0.24 | 52 | MLS010□220D11CS□□□ |
| | 33 | 5 x 11 | 0.24 | 70 | MLS010□330D11CS□□□ |
| | 47 | 5 x 11 | 0.24 | 88 | MLS010□470D11CS□□□ |
| | 68 | 5 x 11 | 0.24 | 110 | MLS010□680D11CS□□□ |
| | 100 | 5 x 11 | 0.24 | 150 | MLS010□101D11CS□□□ |
| | 220 | 5 x 11 | 0.24 | 229 | MLS010□221D11CS□□□ |
| | | 8 x 9 | 0.24 | 150 | MLS010□221F09CS□□□ |
| | 330 | 6.3 x 11 | 0.24 | 322 | MLS010□331E11CS□□□ |
| | 470 | 6.3 x 11 | 0.24 | 384 | MLS010□471E11CS□□□ |
| | 680 | 8 x 11.5 | 0.24 | 546 | MLS010□681F12CS□□□ |
| | 1,000 | 8 x 16 | 0.24 | 751 | MLS010□102F16CS□□□ |
| | 2,200 | 10 x 20 | 0.24 | 1,226 | MLS010□222G20CS□□□ |
| | 3,300 | 10 x 25 | 0.24 | 1,657 | MLS010□332G25CS□□□ |
| | 4,700 | 12.5 x 25 | 0.24 | 2,103 | MLS010□472X25CS□□□ |
| | 6,800 | 12.5 x 35 | 0.24 | 2,706 | MLS010□682X35CS□□□ |
| 10,000 | 16 x 31.5 | 0.24 | 2,960 | MLS010□103J32CS□□□ | |
| 15,000 | 18 x 35.5 | 0.24 | 3,826 | MLS010□153K36CS□□□ | |
| 16 | 10 | 5 x 11 | 0.20 | 39 | MLS016□100D11CS□□□ |
| | 22 | 5 x 11 | 0.20 | 68 | MLS016□220D11CS□□□ |
| | 33 | 5 x 11 | 0.20 | 76 | MLS016□330D11CS□□□ |
| | 47 | 5 x 11 | 0.20 | 98 | MLS016□470D11CS□□□ |
| | 68 | 5 x 11 | 0.20 | 130 | MLS016□680D11CS□□□ |
| | 100 | 5 x 11 | 0.20 | 170 | MLS016□101D11CS□□□ |
| | 220 | 6.3 x 11 | 0.20 | 290 | MLS016□221E11CS□□□ |
| | | 8 x 9 | 0.20 | 250 | MLS016□221F09CS□□□ |
| | 330 | 6.3 x 11 | 0.20 | 360 | MLS016□331E11CS□□□ |
| | 470 | 8 x 11.5 | 0.20 | 499 | MLS016□471F12CS□□□ |
| | 680 | 8 x 16 | 0.20 | 655 | MLS016□681F16CS□□□ |
| | 1,000 | 10 x 16 | 0.20 | 928 | MLS016□102G16CS□□□ |
| | 2,200 | 10 x 20 | 0.20 | 1,340 | MLS016□222G20CS□□□ |
| | 3,300 | 10 x 30 | 0.20 | 1,804 | MLS016□332G30CS□□□ |
| | 4,700 | 16 x 20 | 0.20 | 2,200 | MLS016□472J20CS□□□ |
| 6,800 | 16 x 25 | 0.20 | 2,690 | MLS016□682J25CS□□□ | |
| 10,000 | 16 x 35.5 | 0.20 | 3,490 | MLS016□103K36CS□□□ | |
| 25 | 10 | 5 x 11 | 0.16 | 49 | MLS025□100D11CS□□□ |
| | 22 | 5 x 11 | 0.16 | 73 | MLS025□220D11CS□□□ |
| | 33 | 5 x 11 | 0.16 | 83 | MLS025□330D11CS□□□ |
| | 47 | 5 x 11 | 0.16 | 126 | MLS025□470D11CS□□□ |
| | 68 | 5 x 11 | 0.16 | 151 | MLS025□680D11CS□□□ |
| | 100 | 5 x 11 | 0.16 | 184 | MLS025□101D11CS□□□ |
| | | 8 x 9 | 0.16 | 115 | MLS025□101F09CS□□□ |
| | 220 | 6.3 x 11 | 0.16 | 318 | MLS025□221E11CS□□□ |
| | 330 | 8 x 11.5 | 0.16 | 453 | MLS025□331F12CS□□□ |
| | 470 | 8 x 16 | 0.16 | 597 | MLS025□471F16CS□□□ |
| | 680 | 10 x 16 | 0.16 | 826 | MLS025□681G16CS□□□ |
| | 1,000 | 10 x 20 | 0.16 | 1,094 | MLS025□102G20CS□□□ |

| VV (Vdc) | Cap (uF) | Size ØxL (mm) | Tanδ | Ripple Current (mA _{RMS} , 85°C, 120Hz) | Code No |
|----------|-----------|---------------|-------|--------------------------------------------------|--------------------|
| 25 | 2,200 | 12.5 x 25 | 0.16 | 1,800 | MLS025□222X25CS□□□ |
| | 3,300 | 12.5 x 30 | 0.16 | 2,159 | MLS025□332X30CS□□□ |
| | 4,700 | 16 x 25 | 0.16 | 2,464 | MLS025□472J25CS□□□ |
| | 6,800 | 16 x 31.5 | 0.16 | 2,992 | MLS025□682J32CS□□□ |
| 35 | 4.7 | 5 x 11 | 0.14 | 35 | MLS035□4R7D11CS□□□ |
| | 6.8 | 5 x 11 | 0.14 | 46 | MLS035□6R8D11CS□□□ |
| | 10 | 5 x 11 | 0.14 | 53 | MLS035□100D11CS□□□ |
| | 22 | 5 x 11 | 0.14 | 80 | MLS035□220D11CS□□□ |
| | 33 | 5 x 11 | 0.14 | 100 | MLS035□330D11CS□□□ |
| | 47 | 5 x 11 | 0.14 | 138 | MLS035□470D11CS□□□ |
| | | 8 x 9 | 0.14 | 98 | MLS035□470F09CS□□□ |
| | 68 | 6.3 x 11 | 0.14 | 191 | MLS035□680E11CS□□□ |
| | 100 | 6.3 x 11 | 0.14 | 231 | MLS035□101E11CS□□□ |
| | 220 | 8 x 11.5 | 0.14 | 405 | MLS035□221F12CS□□□ |
| | 330 | 8 x 16 | 0.14 | 547 | MLS035□331F16CS□□□ |
| | 470 | 10 x 16 | 0.14 | 753 | MLS035□471G16CS□□□ |
| | 680 | 10 x 20 | 0.14 | 988 | MLS035□681G20CS□□□ |
| | 1,000 | 10 x 20 | 0.14 | 1,163 | MLS035□102G20CS□□□ |
| | 2,200 | 12.5 x 35 | 0.14 | 2,055 | MLS035□222X35CS□□□ |
| 3,300 | 16 x 31.5 | 0.14 | 2,498 | MLS035□332J32CS□□□ | |
| 4,700 | 16 x 35.5 | 0.14 | 3,061 | MLS035□472J36CS□□□ | |
| 50 | 0.1 | 5 x 11 | 0.12 | 5.5 | MLS050□R10D11CS□□□ |
| | 0.22 | 5 x 11 | 0.12 | 8 | MLS050□R22D11CS□□□ |
| | 0.33 | 5 x 11 | 0.12 | 10 | MLS050□R33D11CS□□□ |
| | 0.47 | 5 x 11 | 0.12 | 15 | MLS050□R47D11CS□□□ |
| | 0.68 | 5 x 11 | 0.12 | 18 | MLS050□R68D11CS□□□ |
| | 1.0 | 5 x 11 | 0.12 | 22 | MLS050□1R0D11CS□□□ |
| | 2.2 | 5 x 11 | 0.12 | 34 | MLS050□2R2D11CS□□□ |
| | 3.3 | 5 x 11 | 0.12 | 41 | MLS050□3R3D11CS□□□ |
| | 4.7 | 5 x 11 | 0.12 | 48 | MLS050□4R7D11CS□□□ |
| | 6.8 | 5 x 11 | 0.12 | 59 | MLS050□6R8D11CS□□□ |
| | 10 | 5 x 11 | 0.12 | 71 | MLS050□100D11CS□□□ |
| | 22 | 5 x 11 | 0.12 | 106 | MLS050□220D11CS□□□ |
| | 33 | 6.3 x 11 | 0.12 | 129 | MLS050□330E11CS□□□ |
| | 47 | 6.3 x 11 | 0.12 | 177 | MLS050□470E11CS□□□ |
| | 68 | 6.3 x 11 | 0.12 | 213 | MLS050□680E11CS□□□ |
| 100 | 8 x 11.5 | 0.12 | 306 | MLS050□101F12CS□□□ | |
| 220 | 10 x 12.5 | 0.12 | 506 | MLS050□221G13CS□□□ | |
| 330 | 10 x 16 | 0.12 | 706 | MLS050□331G16CS□□□ | |
| 470 | 10 x 20 | 0.12 | 918 | MLS050□471G20CS□□□ | |
| 680 | 12.5 x 20 | 0.12 | 1,296 | MLS050□681X20CS□□□ | |
| 1,000 | 12.5 x 25 | 0.12 | 1,715 | MLS050□102X25CS□□□ | |
| 2,200 | 16 x 31.5 | 0.12 | 2,320 | MLS050□222J32CS□□□ | |
| 3,300 | 18 x 35.5 | 0.12 | 3,218 | MLS050□332K36CS□□□ | |
| 63 | 0.1 | 5 x 11 | 0.10 | 6.2 | MLS063□R10D11CS□□□ |
| | 0.22 | 5 x 11 | 0.10 | 9 | MLS063□R22D11CS□□□ |
| | 0.33 | 5 x 11 | 0.10 | 11 | MLS063□R33D11CS□□□ |
| | 0.47 | 5 x 11 | 0.10 | 16 | MLS063□R47D11CS□□□ |
| | 0.68 | 5 x 11 | 0.10 | 19 | MLS063□R68D11CS□□□ |
| | 1.0 | 5 x 11 | 0.10 | 24 | MLS063□1R0D11CS□□□ |
| | 2.2 | 5 x 11 | 0.10 | 35 | MLS063□2R2D11CS□□□ |
| | 3.3 | 5 x 11 | 0.10 | 43 | MLS063□3R3D11CS□□□ |
| | 4.7 | 5 x 11 | 0.10 | 53 | MLS063□4R7D11CS□□□ |
| | 6.8 | 5 x 11 | 0.10 | 63 | MLS063□6R8D11CS□□□ |
| | 10 | 5 x 11 | 0.10 | 76 | MLS063□100D11CS□□□ |
| | 22 | 5 x 11 | 0.10 | 113 | MLS063□220D11CS□□□ |
| | 33 | 6.3 x 11 | 0.10 | 159 | MLS063□330E11CS□□□ |
| | 47 | 6.3 x 11 | 0.10 | 190 | MLS063□470E11CS□□□ |
| | 68 | 8 x 11.5 | 0.10 | 269 | MLS063□680F11CS□□□ |
| 100 | 8 x 11.5 | 0.10 | 321 | MLS063□101F11CS□□□ | |
| 220 | 10 x 16 | 0.10 | 615 | MLS063□221G16CS□□□ | |
| 330 | 10 x 20 | 0.10 | 823 | MLS063□331G20CS□□□ | |
| 470 | 10 x 20 | 0.10 | 1,039 | MLS063□471G20CS□□□ | |



MLS SERIES

Standard Rating

| WV (Vdc) | Cap (μF) | Size ØxL (mm) | Tanδ | Ripple Current (mA _{rms} /85°C,120Hz) | Code No |
|----------|-----------|---------------|----------|------------------------------------------------|--------------------|
| 63 | 680 | 12.5 x 25 | 0.10 | 1,512 | MLS063□681X25CS□□□ |
| | 1,000 | 16 x 25 | 0.10 | 1,850 | MLS063□102J25CS□□□ |
| | 2,200 | 18 x 35.5 | 0.10 | 2,740 | MLS063□222K36CS□□□ |
| 100 | 0.1 | 5 x 11 | 0.09 | 6.5 | MLS100□R10D11CS□□□ |
| | 0.22 | 5 x 11 | 0.09 | 11 | MLS100□R22D11CS□□□ |
| | 0.33 | 5 x 11 | 0.09 | 13 | MLS100□R33D11CS□□□ |
| | 0.47 | 5 x 11 | 0.09 | 17 | MLS100□R47D11CS□□□ |
| | 0.68 | 5 x 11 | 0.09 | 19 | MLS100□R68D11CS□□□ |
| | 1.0 | 5 x 11 | 0.09 | 24 | MLS100□R10D11CS□□□ |
| | 2.2 | 5 x 11 | 0.09 | 37 | MLS100□R22D11CS□□□ |
| | 3.3 | 5 x 11 | 0.09 | 44 | MLS100□R33D11CS□□□ |
| | 4.7 | 5 x 11 | 0.09 | 55 | MLS100□R47D11CS□□□ |
| | 6.8 | 5 x 11 | 0.09 | 64 | MLS100□R68D11CS□□□ |
| | 10 | 5 x 11 | 0.09 | 76 | MLS100□R10D11CS□□□ |
| | 22 | 6.3 x 11 | 0.09 | 130 | MLS100□220E11CS□□□ |
| | 33 | 8 x 11.5 | 0.09 | 187 | MLS100□330F12CS□□□ |
| | 47 | 8 x 16 | 0.09 | 246 | MLS100□470F16CS□□□ |
| | 68 | 10 x 12.5 | 0.09 | 311 | MLS100□680G13CS□□□ |
| | 100 | 10 x 16 | 0.09 | 416 | MLS100□101G16CS□□□ |
| | 220 | 12.5 x 20 | 0.09 | 742 | MLS100□221X20CS□□□ |
| 330 | 12.5 x 25 | 0.09 | 987 | MLS100□331X25CS□□□ | |
| 470 | 16 x 25 | 0.09 | 1,394 | MLS100□471J25CS□□□ | |
| 680 | 16 x 35.5 | 0.09 | 1,620 | MLS100□681J36CS□□□ | |
| 1,000 | 18 x 35.5 | 0.09 | 1,995 | MLS100□102K36CS□□□ | |
| 160 | 0.47 | 6.3 x 11 | 0.20 | 18 | MLS160□R47E11CS□□□ |
| | 0.68 | 6.3 x 11 | 0.20 | 21 | MLS160□R68E11CS□□□ |
| | 1.0 | 6.3 x 11 | 0.20 | 23 | MLS160□R10E11CS□□□ |
| | 2.2 | 6.3 x 11 | 0.20 | 33 | MLS160□R22E11CS□□□ |
| | 3.3 | 6.3 x 11 | 0.20 | 46 | MLS160□R33E11CS□□□ |
| | 4.7 | 6.3 x 11 | 0.20 | 56 | MLS160□R47E11CS□□□ |
| | 6.8 | 8 x 11.5 | 0.20 | 78 | MLS160□688F12CS□□□ |
| | 10 | 8 x 11.5 | 0.20 | 82 | MLS160□100F12CS□□□ |
| | 22 | 10 x 16 | 0.20 | 150 | MLS160□220G16CS□□□ |
| | 33 | 10 x 20 | 0.20 | 243 | MLS160□330G20CS□□□ |
| | 47 | 10 x 20 | 0.20 | 301 | MLS160□470G20CS□□□ |
| | 68 | 12.5 x 20 | 0.20 | 410 | MLS160□680X20CS□□□ |
| | 100 | 12.5 x 25 | 0.20 | 541 | MLS160□101X25CS□□□ |
| | 220 | 16 x 25 | 0.20 | 906 | MLS160□221J25CS□□□ |
| | 330 | 18 x 31.5 | 0.20 | 1,304 | MLS160□331K32CS□□□ |
| | 470 | 22 x 35 | 0.20 | 1,457 | MLS160□471M35CS□□□ |
| | 680 | 22 x 40 | 0.20 | 1,680 | MLS160□681M40CS□□□ |
| 200 | 0.47 | 6.3 x 11 | 0.20 | 18 | MLS200□R47E11CS□□□ |
| | 0.68 | 6.3 x 11 | 0.20 | 21 | MLS200□R68E11CS□□□ |
| | 1.0 | 6.3 x 11 | 0.20 | 23 | MLS200□R10E11CS□□□ |
| | 2.2 | 6.3 x 11 | 0.20 | 39 | MLS200□R22E11CS□□□ |
| | 3.3 | 6.3 x 11 | 0.20 | 47 | MLS200□R33E11CS□□□ |
| | 4.7 | 6.3 x 11 | 0.20 | 55 | MLS200□R47E11CS□□□ |
| | 6.8 | 8 x 11.5 | 0.20 | 80 | MLS200□688F12CS□□□ |
| | 10 | 8 x 11.5 | 0.20 | 96 | MLS200□100F12CS□□□ |
| | 22 | 10 x 16 | 0.20 | 168 | MLS200□220G16CS□□□ |
| | 33 | 10 x 20 | 0.20 | 245 | MLS200□330G20CS□□□ |
| | 47 | 12.5 x 20 | 0.20 | 343 | MLS200□470X20CS□□□ |
| | 68 | 12.5 x 25 | 0.20 | 480 | MLS200□680X25CS□□□ |
| | 100 | 16 x 20 | 0.20 | 543 | MLS200□101J20CS□□□ |
| | 220 | 16 x 31.5 | 0.20 | 1,029 | MLS200□221J32CS□□□ |
| | 330 | 18 x 35.5 | 0.20 | 1,324 | MLS200□331K36CS□□□ |
| | 470 | 22 x 40 | 0.20 | 1,494 | MLS200□471M40CS□□□ |
| | 250 | 0.47 | 6.3 x 11 | 0.20 | 19 |
| 0.68 | | 6.3 x 11 | 0.20 | 22 | MLS250□R68E11CS□□□ |
| 1.0 | | 6.3 x 11 | 0.20 | 27 | MLS250□R10E11CS□□□ |
| 2.2 | | 6.3 x 11 | 0.20 | 41 | MLS250□R22E11CS□□□ |
| 3.3 | | 6.3 x 11 | 0.20 | 48 | MLS250□R33E11CS□□□ |
| 4.7 | | 6.3 x 11 | 0.20 | 66 | MLS250□R47E11CS□□□ |
| 6.8 | | 8 x 11.5 | 0.20 | 82 | MLS250□688F12CS□□□ |

| WV (Vdc) | Cap (μF) | Size ØxL (mm) | Tanδ | Ripple Current (mA _{rms} /85°C,120Hz) | Code No | |
|----------|----------|---------------|-----------|------------------------------------------------|--------------------|--------------------|
| 250 | 10 | 10 x 12.5 | 0.20 | 113 | MLS250□100G13CS□□□ | |
| | 22 | 10 x 20 | 0.20 | 198 | MLS250□220G20CS□□□ | |
| | 33 | 12.5 x 20 | 0.20 | 286 | MLS250□330X20CS□□□ | |
| | 47 | 12.5 x 25 | 0.20 | 371 | MLS250□470X25CS□□□ | |
| | 68 | 16 x 20 | 0.20 | 490 | MLS250□680J20CS□□□ | |
| | 100 | 16 x 25 | 0.20 | 572 | MLS250□101J25CS□□□ | |
| | 220 | 18 x 35.5 | 0.20 | 1,061 | MLS250□221K36CS□□□ | |
| 350 | 330 | 22 x 40 | 0.20 | 1,366 | MLS250□331M40CS□□□ | |
| | 0.47 | 6.3 x 11 | 0.24 | 20 | MLS350□R47E11CS□□□ | |
| | 0.68 | 6.3 x 11 | 0.24 | 23 | MLS350□R68E11CS□□□ | |
| | 1.0 | 6.3 x 11 | 0.24 | 28 | MLS350□R10E11CS□□□ | |
| | 2.2 | 6.3 x 11 | 0.24 | 43 | MLS350□R22E11CS□□□ | |
| | 3.3 | 8 x 11.5 | 0.24 | 56 | MLS350□R33F12CS□□□ | |
| | 4.7 | 8 x 11.5 | 0.24 | 68 | MLS350□R47F12CS□□□ | |
| | 6.8 | 10 x 12.5 | 0.24 | 92 | MLS350□688G13CS□□□ | |
| | 10 | 10 x 16 | 0.24 | 118 | MLS350□100G16CS□□□ | |
| | 22 | 12.5 x 20 | 0.24 | 233 | MLS350□220X20CS□□□ | |
| | 33 | 12.5 x 25 | 0.24 | 300 | MLS350□330X25CS□□□ | |
| | 47 | 16 x 20 | 0.24 | 395 | MLS350□470J20CS□□□ | |
| | 68 | 16 x 25 | 0.24 | 500 | MLS350□680J25CS□□□ | |
| | 100 | 16 x 35.5 | 0.24 | 688 | MLS350□101J36CS□□□ | |
| | 220 | 22 x 40 | 0.24 | 1,100 | MLS350□221M40CS□□□ | |
| | 400 | 0.47 | 6.3 x 11 | 0.24 | 20 | MLS400□R47E11CS□□□ |
| | | 0.68 | 6.3 x 11 | 0.24 | 23 | MLS400□R68E11CS□□□ |
| 1.0 | | 6.3 x 11 | 0.24 | 29 | MLS400□R10E11CS□□□ | |
| 2.2 | | 6.3 x 11 | 0.24 | 44 | MLS400□R22E11CS□□□ | |
| 3.3 | | 8 x 11.5 | 0.24 | 59 | MLS400□R33F12CS□□□ | |
| 4.7 | | 10 x 12.5 | 0.24 | 73 | MLS400□R47G13CS□□□ | |
| 6.8 | | 10 x 16 | 0.24 | 100 | MLS400□688G16CS□□□ | |
| 10 | | 10 x 20 | 0.24 | 134 | MLS400□100G20CS□□□ | |
| 22 | | 10 x 25 | 0.24 | 229 | MLS400□220G25CS□□□ | |
| 33 | | 12.5 x 25 | 0.24 | 321 | MLS400□330X25CS□□□ | |
| 47 | | 16 x 25 | 0.24 | 437 | MLS400□470J25CS□□□ | |
| 68 | | 16 x 31.5 | 0.24 | 563 | MLS400□680J32CS□□□ | |
| 100 | | 18 x 35.5 | 0.24 | 720 | MLS400□101K36CS□□□ | |
| 220 | | 22 x 45 | 0.24 | 1,150 | MLS400□221M45CS□□□ | |
| 450 | | 1.0 | 6.3 x 11 | 0.24 | 24 | MLS450□R10E11CS□□□ |
| | | 2.2 | 8 x 11.5 | 0.24 | 40 | MLS450□R22F12CS□□□ |
| | | 3.3 | 10 x 12.5 | 0.24 | 54 | MLS450□R33G13CS□□□ |
| | 4.7 | 10 x 16 | 0.24 | 72 | MLS450□R47G16CS□□□ | |
| | 6.8 | 10 x 20 | 0.24 | 90 | MLS450□R68G20CS□□□ | |
| | 10 | 12.5 x 20 | 0.24 | 120 | MLS450□100X20CS□□□ | |
| | 22 | 16 x 20 | 0.24 | 216 | MLS450□220J20CS□□□ | |
| | 33 | 16 x 20 | 0.24 | 297 | MLS450□330J20CS□□□ | |
| | 47 | 16 x 31.5 | 0.24 | 397 | MLS450□470J32CS□□□ | |
| | 68 | 16 x 35.5 | 0.24 | 555 | MLS450□680J36CS□□□ | |
| | 100 | 18 x 40 | 0.24 | 630 | MLS450□101K40CS□□□ | |
| | 500 | 1.0 | 6.3 x 11 | 0.24 | 20 | MLS500□R10E11CS□□□ |
| | | 2.2 | 8 x 11.5 | 0.24 | 34 | MLS500□R22F12CS□□□ |
| | | 3.3 | 10 x 12.5 | 0.24 | 50 | MLS500□R33G13CS□□□ |
| | | 4.7 | 10 x 16 | 0.24 | 68 | MLS500□R47G16CS□□□ |
| | | 6.8 | 10 x 20 | 0.24 | 85 | MLS500□R68G20CS□□□ |
| | | 10 | 12.5 x 20 | 0.24 | 110 | MLS500□100X20CS□□□ |
| 22 | | 16 x 20 | 0.24 | 140 | MLS500□220J20CS□□□ | |
| 33 | | 16 x 31.5 | 0.24 | 220 | MLS500□330J32CS□□□ | |
| 47 | | 18 x 31.5 | 0.24 | 247 | MLS500□470K32CS□□□ | |
| 68 | | 18 x 35.5 | 0.24 | 278 | MLS500□680K36CS□□□ | |

RATED RIPPLE CURRENT MULTIPLIERS

| Freq.(Hz) Cap.(μF) | 60 | 120 | 300 | 1k | 10k ~ |
|-----------------------|------|------|------|------|-------|
| ~6.8 | 0.65 | 1.00 | 1.35 | 1.75 | 2.30 |
| 10~68 | 0.75 | 1.00 | 1.25 | 1.50 | 1.75 |
| 100~1,000 | 0.80 | 1.00 | 1.15 | 1.30 | 1.40 |
| 2,000~15,000 | 0.85 | 1.00 | 1.03 | 1.05 | 1.08 |