

## MLB Series

• 85°C 8,000Hrs assured.

- Non-solvent proof.
- Long Life.
- For LED TV Power, SMPS.
- RoHS compliant.
- Halogen-free capacitors are also available.

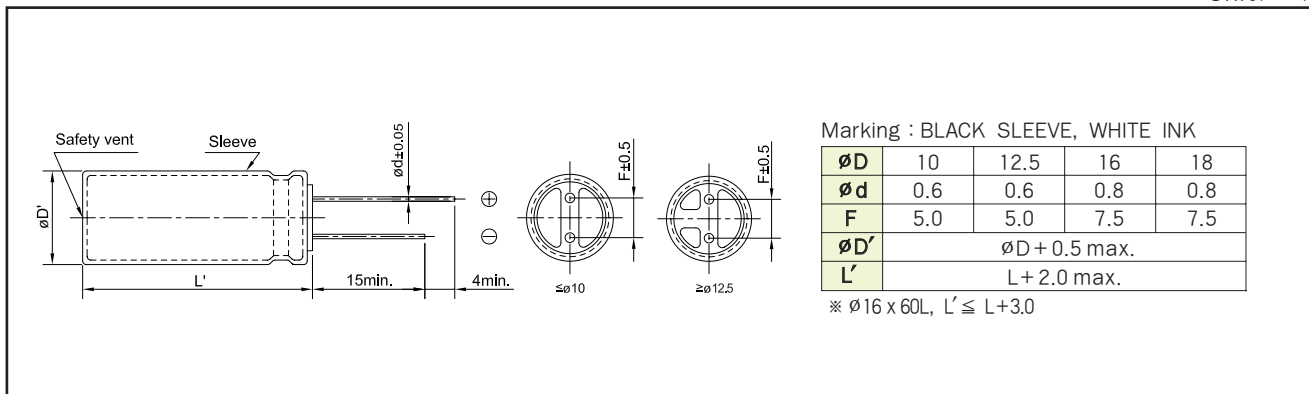


### SPECIFICATIONS

| Item  | Characteristics   |                                       |                 |                 |                |                 |        |  |                |                 |        |  |                  |                 |
|---|---|---------------------------------------|-----------------|-----------------|----------------|-----------------|--------|--|----------------|-----------------|--------|--|------------------|-----------------|
| Rated Voltage Range   | 400 V <sub>DC</sub>   | 420 ~ 500 V <sub>DC</sub>             |                 |                 |                |                 |        |  |                |                 |        |  |                  |                 |
| Operating Temperature Range   | -40 ~ + 85°C  | -25 ~ + 85°C                          |                 |                 |                |                 |        |  |                |                 |        |  |                  |                 |
| Capacitance Tolerance   | ±20% (M) (at 20°C, 120Hz)   |                                       |                 |                 |                |                 |        |  |                |                 |        |  |                  |                 |
| Leakage Current   | <table border="1"> <thead> <tr> <th>C · V</th> <th>Time</th> <th>After 1 minute</th> <th>After 5 minutes</th> </tr> </thead> <tbody> <tr> <td>≤ 1000</td> <td></td> <td>I = 0.1CV + 40</td> <td>I = 0.03CV + 15</td> </tr> <tr> <td>&gt; 1000</td> <td></td> <td>I = 0.04CV + 100</td> <td>I = 0.02CV + 25</td> </tr> </tbody> </table> |                                       | C · V           | Time            | After 1 minute | After 5 minutes | ≤ 1000 |  | I = 0.1CV + 40 | I = 0.03CV + 15 | > 1000 |  | I = 0.04CV + 100 | I = 0.02CV + 25 |
|   | C · V   | Time                                  | After 1 minute  | After 5 minutes |                |                 |        |  |                |                 |        |  |                  |                 |
|   | ≤ 1000  |                                       | I = 0.1CV + 40  | I = 0.03CV + 15 |                |                 |        |  |                |                 |        |  |                  |                 |
| > 1000  |   | I = 0.04CV + 100                      | I = 0.02CV + 25 |                 |                |                 |        |  |                |                 |        |  |                  |                 |
| Where, I:Max. Leakage current(μA), C:Nominal capacitance(μF), V:Rated voltage(V <sub>DC</sub> ) (at 20°C) |   |                                       |                 |                 |                |                 |        |  |                |                 |        |  |                  |                 |
| Dissipation Factor(Tanδ)  | Rated Voltage(V <sub>DC</sub> )   | 400 ~ 500                             |                 |                 |                |                 |        |  |                |                 |        |  |                  |                 |
|   | Tanδ(Max.)  | 0.24 (at 20°C, 120Hz)                 |                 |                 |                |                 |        |  |                |                 |        |  |                  |                 |
| Temperature Characteristics<br>(Max. Impedance ratio)   | Rated Voltage(V <sub>DC</sub> )   | 400                                   | 420~500         |                 |                |                 |        |  |                |                 |        |  |                  |                 |
|   | Z(-25°C)/Z(+20°C)   | 5                                     | 6               |                 |                |                 |        |  |                |                 |        |  |                  |                 |
|   | Z(-40°C)/Z(+20°C)   | 6                                     | -               |                 |                |                 |        |  |                |                 |        |  |                  |                 |
| (at 120Hz)  |   |                                       |                 |                 |                |                 |        |  |                |                 |        |  |                  |                 |
| Load Life   | The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage with the rated ripple current is applied (the peak voltage shall not exceed the rated voltage)for 8,000 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   | ≤ 500% of the initial specified value |                 |                 |                |                 |        |  |                |                 |        |  |                  |                 |
| Others  | Satisfied characteristics KS C IEC 60384-4  |                                       |                 |                 |                |                 |        |  |                |                 |        |  |                  |                 |

### DIMENSIONS OF MLB Series

Unit(mm)





## RATINGS OF MLB Series

| V <sub>dc</sub> | Cap.( $\mu$ F) | Case size<br>$\varnothing$ D×L(mm) | Rated Ripple Current (mA <sub>rms</sub> /85°C) |       |       |       |        |
|-----------------|----------------|------------------------------------|--|-------|-------|-------|--------|
|                 |                |                                    | 120Hz  | 1KHz  | 10KHz | 50KHz | 100KHz |
| 400             | 68             | 16 X 31.5                          | 563  | 704   | 845   | 985   | 1,126  |
|                 |                | 18 X 25                            | 544  | 680   | 816   | 952   | 1,088  |
|                 | 82             | 16 X 35.5                          | 650  | 813   | 975   | 1,138 | 1,300  |
|                 |                | 18 X 31.5                          | 650  | 813   | 975   | 1,138 | 1,300  |
|                 | 100            | 16 X 40                            | 780  | 975   | 1,170 | 1,365 | 1,560  |
|                 |                | 18 X 31.5                          | 700  | 875   | 1,050 | 1,225 | 1,400  |
|                 | 120            | 16 X 45                            | 889  | 1,111 | 1,334 | 1,556 | 1,778  |
|                 |                | 18 X 35.5                          | 830  | 1,038 | 1,245 | 1,453 | 1,660  |
|                 | 150            | 16 X 50                            | 980  | 1,225 | 1,470 | 1,715 | 1,960  |
|                 | 420            | 68                                 | 16 X 31.5                                      | 550   | 688   | 825   | 963    |
| 18 X 25         |                |                                    | 533  | 666   | 800   | 933   | 1,066  |
| 82              |                | 16 X 35.5                          | 630  | 788   | 945   | 1,103 | 1,260  |
|                 |                | 18 X 31.5                          | 630  | 788   | 945   | 1,103 | 1,260  |
| 100             |                | 16 X 40                            | 750  | 938   | 1,125 | 1,500 | 1,575  |
|                 |                | 18 X 35.5                          | 720  | 900   | 1,080 | 1,440 | 1,512  |
| 120             |                | 16 X 45                            | 840  | 1,050 | 1,260 | 1,700 | 1,730  |
|                 |                | 18 X 40                            | 840  | 1,050 | 1,260 | 1,700 | 1,730  |
| 150             |                | 16 X 50                            | 920  | 1,150 | 1,380 | 1,760 | 1,840  |
| 450             |                | 47                                 | 10 X 50  | 420   | 525   | 630   | 735    |
|                 | 56             | 12.5 X 40                          | 470  | 588   | 705   | 823   | 940    |
|                 | 68             | 12.5 X 45                          | 540  | 675   | 810   | 945   | 1,080  |
|                 |                | 16 X 31.5                          | 550  | 688   | 825   | 1,476 | 1,476  |
|                 |                | 16 X 35.5                          | 578  | 723   | 867   | 1,012 | 1,156  |
|                 |                | 18 X 31.5                          | 560  | 700   | 840   | 980   | 1,120  |
|                 | 82             | 12.5 X 50                          | 620  | 775   | 930   | 1,085 | 1,240  |
|                 |                | 16 X 35.5                          | 630  | 788   | 945   | 1,103 | 1,260  |
|                 |                | 16 X 40                            | 656  | 820   | 984   | 1,500 | 1,500  |
|                 |                | 18 X 31.5                          | 630  | 788   | 945   | 1,103 | 1,260  |
|                 | 100            | 12.5 X 60                          | 710  | 888   | 1,065 | 1,243 | 1,420  |
|                 |                | 16 X 40                            | 720  | 900   | 1,080 | 1,940 | 1,940  |
|                 |                | 16 X 45                            | 760  | 950   | 1,140 | 1,940 | 1,940  |
|                 |                | 18 X 35.5                          | 720  | 900   | 1,080 | 1,440 | 1,512  |
|                 | 120            | 16 X 50                            | 865  | 1,081 | 1,298 | 2,112 | 2,112  |
|                 |                | 18 X 40                            | 840  | 1,050 | 1,260 | 1,700 | 1,730  |
| 150             | 16 X 50        | 920                                | 1,150  | 1,380 | 1,760 | 1,840 |        |
| 500             | 10             | 12.5 X 16                          | 115  | 144   | 173   | 201   | 230    |
|                 | 22             | 16 X 25                            | 230  | 288   | 345   | 403   | 460    |
|                 | 33             | 10 X 50                            | 310  | 388   | 465   | 543   | 620    |
|                 | 47             | 12.5 X 40                          | 380  | 475   | 570   | 665   | 760    |
|                 |                | 16 X 35.5                          | 435  | 544   | 653   | 761   | 870    |
|                 | 56             | 12.5 X 45                          | 460  | 575   | 690   | 805   | 920    |
|                 |                | 16 X 40                            | 491  | 614   | 737   | 859   | 982    |
|                 | 68             | 12.5 X 50                          | 510  | 638   | 765   | 893   | 1,020  |
|                 |                | 16 X 40                            | 523  | 654   | 785   | 1,460 | 1,460  |
|                 |                | 16 X 45                            | 563  | 704   | 845   | 985   | 1,126  |
|                 | 82             | 12.5 X 60                          | 600  | 750   | 900   | 1,050 | 1,200  |
|                 |                | 16 X 40                            | 580  | 725   | 870   | 1,480 | 1,480  |
|                 |                | 16 X 45                            | 610  | 763   | 915   | 1,500 | 1,500  |
|                 |                | 16 X 50                            | 630  | 788   | 945   | 1,103 | 1,260  |
|                 | 100            | 16 X 50                            | 700  | 875   | 1,050 | 1,848 | 1,848  |
|                 |                | 18 X 45                            | 700  | 875   | 1,050 | 1,410 | 1,500  |
| 120             | 16 X 60        | 830                                | 1,038  | 1,245 | 2,070 | 2,070 |        |
|                 | 18 X 50        | 830                                | 1,038  | 1,245 | 1,700 | 1,730 |        |

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