

# LMU

## +105°C Long Life Snap-Mount Aluminum Electrolytic Capacitors



"NEW  
EXPANDED  
SELECTION"

For all Long Life High CV Applications

### FEATURES

- Rugged design
- Large case size selection
- Capacitance range: 47 $\mu$ F to 47,000 $\mu$ F
- High voltage range: 10 WVDC to 450 WVDC
- High ripple currents ratings
- Extended Life

### SPECIFICATIONS

| Capacitance Tolerance             |             | ±20% at 120Hz, 20°C                                                                      |     |     |      |     |      |     |                  |                                                                                                  |     |     |     |     |     |                 |     |     |     |     |
|-----------------------------------|-------------|------------------------------------------------------------------------------------------|-----|-----|------|-----|------|-----|------------------|--------------------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----------------|-----|-----|-----|-----|
| Operating Temperature Range       |             | -40°C to +105°C                                                                          |     |     |      |     |      |     |                  |                                                                                                  |     |     |     |     |     | -25°C to +105°C |     |     |     |     |
| Dissipation Factor<br>120Hz, 20°C | WVDC        |                                                                                          |     |     |      | 10  | 16   | 25  | 35               | 50                                                                                               | 63  | 80  | 100 | 160 | 180 | 200             | 250 | 350 | 400 | 450 |
|                                   | tan δ       | C ≤ 2200μF                                                                               |     |     |      |     |      |     |                  | .2                                                                                               | .15 | .15 | .15 | .1  | .1  | .1              | .1  | .2  | .2  | .2  |
|                                   |             | 3300μF ≤ C ≤ 6800μF                                                                      |     |     |      |     |      | .3  | .25              | .25                                                                                              | .2  | .2  | .2  |     |     |                 |     |     |     |     |
|                                   |             | C ≥ 10000μF                                                                              |     |     |      | .7  | .7   | .4  | .35              | .3                                                                                               | .3  |     |     |     |     |                 |     |     |     |     |
| Impedance Ratio<br>120Hz          | WVDC        | 10                                                                                       | 16  | 25  | 35   | 50  | 63   | 80  | 100              | 160                                                                                              | 180 | 200 | 250 | 350 | 400 | 450             |     |     |     |     |
|                                   | -25°C/20°C  | 4                                                                                        | 4   | 3   | 3    | 3   | 3    | 3   | 3                | 3                                                                                                | 3   | 3   | 3   | 8   | 8   | 8               |     |     |     |     |
|                                   | -40°C/20°C  | 12                                                                                       | 12  | 6   | 6    | 6   | 6    | 6   | 6                | 8                                                                                                | 8   | 8   | 8   | -   | -   | -               |     |     |     |     |
| Leakage Current                   | WVDC        | ≤450 WVDC                                                                                |     |     |      |     |      |     |                  |                                                                                                  |     |     |     |     |     |                 |     |     |     |     |
|                                   | Time        | 5 minutes                                                                                |     |     |      |     |      |     |                  |                                                                                                  |     |     |     |     |     |                 |     |     |     |     |
|                                   |             | .02CV or 2000μA<br>whichever is less                                                     |     |     |      |     |      |     |                  |                                                                                                  |     |     |     |     |     |                 |     |     |     |     |
| Load Life                         |             | 2,000 hours at 105°C with rated WVDC and ripple current                                  |     |     |      |     |      |     |                  |                                                                                                  |     |     |     |     |     |                 |     |     |     |     |
|                                   |             | Capacitance change<br>Dissipation factor<br>Leakage current                              |     |     |      |     |      |     |                  | ≤ 20% of initial measured value<br>≤200% of initial specified value<br>< Initial specified value |     |     |     |     |     |                 |     |     |     |     |
| Shelf life                        |             | 500 hours at +105°C with no voltage applied.<br>Units will meet load life specifications |     |     |      |     |      |     |                  |                                                                                                  |     |     |     |     |     |                 |     |     |     |     |
| Ripple Current<br>Multipliers     | WVDC        | Frequency (Hz)                                                                           |     |     |      |     |      |     | Temperature (C°) |                                                                                                  |     |     |     |     |     |                 |     |     |     |     |
|                                   |             | 50                                                                                       | 120 | 400 | 1k   | 10k | 100k | 45  | 60               | 70                                                                                               | 85  | 105 |     |     |     |                 |     |     |     |     |
|                                   | ≤100        | .8                                                                                       | 1.0 | 1.1 | 1.15 | 1.2 | 1.25 | 2.4 | 2.2              | 2.0                                                                                              | 1.7 | 1.0 |     |     |     |                 |     |     |     |     |
|                                   | 160 to 250V | .8                                                                                       | 1.0 | 1.1 | 1.2  | 1.4 | 1.5  | 2.4 | 2.2              | 2.0                                                                                              | 1.7 | 1.0 |     |     |     |                 |     |     |     |     |
|                                   | >250V       | .8                                                                                       | 1.0 | 1.1 | 1.15 | 1.2 | 1.3  | 2.4 | 2.2              | 2.0                                                                                              | 1.7 | 1.0 |     |     |     |                 |     |     |     |     |

### SPECIAL ORDER OPTIONS

(See Page 37)

- Special tolerances:  $\pm 10\%$  (K), -10% + 30% (Q)
- Epoxy end seal

# LMU

+ 105°C Long Life  
Snap-Mount Aluminum  
Electrolytic Capacitors

## PHYSICAL DIMENSIONS

| WVDC<br>(SV)<br>μF | 10<br>(13)     | 16<br>(20)              | 25<br>(32)              | 35<br>(44)                       | 50<br>(63)              | 63<br>(79)     | 80<br>(100)    | 100<br>(125)            | 160<br>(200)                     | 180<br>(220)                     | 200<br>(250)                              | 250<br>(300)                              | 350<br>(400)                              | 400<br>(450)                     | 450<br>(500)                     |
|--------------------|----------------|-------------------------|-------------------------|----------------------------------|-------------------------|----------------|----------------|-------------------------|----------------------------------|----------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------|----------------------------------|
| 47                 |                |                         |                         |                                  |                         |                |                |                         |                                  |                                  |                                           |                                           |                                           |                                  | 22x25                            |
| 68                 |                |                         |                         |                                  |                         |                |                |                         |                                  |                                  |                                           |                                           | 22x25                                     | 22x25                            | 22x30<br>25x25                   |
| 100                |                |                         |                         |                                  |                         |                |                |                         |                                  | 22x20                            | 22x20                                     | 22x30<br>25x25                            | 22x30<br>22x35<br>25x25<br>25x30<br>30x25 | 22x40<br>25x30<br>30x25          | 22x40<br>25x30<br>30x25          |
| 150                |                |                         |                         |                                  |                         |                |                |                         |                                  |                                  | 22x25                                     | 22x35<br>25x30<br>30x25                   | 22x40<br>25x35<br>30x25                   | 25x40<br>30x30<br>35x25          | 25x40<br>30x30<br>35x25          |
| 220                |                |                         |                         |                                  |                         |                |                |                         |                                  | 22x25                            | 22x30<br>25x25                            | 22x50<br>25x40<br>30x30<br>35x25          | 25x45<br>30x35<br>35x30                   | 25x50<br>30x40<br>35x30<br>40x25 | 25x50<br>30x40<br>35x30<br>40x25 |
| 330                |                |                         |                         |                                  |                         |                |                | 22x25                   | 22x25                            | 25x25                            | 22x35<br>22x40<br>25x30<br>30x25          | 25x50<br>30x40<br>35x30<br>35x35<br>40x30 | 30x45<br>35x35<br>35x40                   | 30x50<br>35x40<br>40x35          | 30x50<br>35x40<br>40x35          |
| 470                |                |                         |                         |                                  |                         |                |                | 22x35<br>25x25          | 22x40<br>25x30<br>25x35<br>30x25 | 22x40<br>25x30<br>25x35<br>30x25 | 22x50<br>25x40<br>30x30<br>30x35<br>35x25 | 35x40<br>40x35                            | 35x45<br>35x50                            | 35x50<br>40x40                   | 35x50<br>40x40                   |
| 560                |                |                         |                         |                                  |                         |                |                |                         | 22x45<br>25x35<br>25x40          | 25x45<br>30x35<br>35x25          | 25x50<br>30x40<br>30x35<br>35x25          | 35x45                                     | 35x50                                     |                                  |                                  |
| 680                |                |                         |                         |                                  |                         |                |                | 25x25                   | 25x35<br>30x25                   | 22x50<br>25x40<br>30x30<br>30x35 | 25x50<br>30x35<br>30x40<br>30x45<br>35x30 |                                           |                                           |                                  |                                  |
| 820                |                |                         |                         |                                  |                         |                |                |                         |                                  | 25x45<br>30x35<br>30x40<br>35x30 | 30x45<br>35x35<br>35x40                   |                                           |                                           |                                  |                                  |
| 1,000              |                |                         |                         |                                  |                         |                | 22x30<br>25x25 | 22x40<br>25x30<br>30x25 | 25x45<br>30x35<br>35x30          | 25x50<br>30x40<br>30x45<br>35x35 | 35x40<br>35x45                            |                                           |                                           |                                  |                                  |
| 1,200              |                |                         |                         |                                  |                         |                |                |                         |                                  | 30x45<br>30x50<br>35x35<br>35x45 | 35x45                                     |                                           |                                           |                                  |                                  |
| 1,500              |                |                         |                         |                                  |                         | 25x25          | 30x25          | 35x25                   | 35x35                            | 35x45<br>35x50                   | 35x50                                     |                                           |                                           |                                  |                                  |
| 1,800              |                |                         |                         |                                  |                         |                |                |                         |                                  |                                  |                                           |                                           |                                           |                                  |                                  |
| 2,200              |                |                         |                         |                                  | 22x30<br>25x25          | 25x30<br>30x25 | 30x35<br>35x25 | 30x40<br>35x35<br>40x30 |                                  | 35x50                            |                                           |                                           |                                           |                                  |                                  |
| 3,300              |                |                         |                         | 22x30<br>25x25                   | 22x35<br>25x30<br>30x25 | 30x30<br>35x25 | 35x35          | 35x45<br>40x35          |                                  |                                  |                                           |                                           |                                           |                                  |                                  |
| 4,700              |                | 22x30                   | 22x35<br>25x25          | 22x50<br>25x40<br>30x30<br>35x25 | 30x40<br>35x30          | 35x45          |                |                         |                                  |                                  |                                           |                                           |                                           |                                  |                                  |
| 6,800              | 22x25          | 22x35<br>25x25          | 22x45<br>25x35<br>30x25 | 30x40<br>35x30<br>40x25          | 35x40                   |                |                |                         |                                  |                                  |                                           |                                           |                                           |                                  |                                  |
| 10,000             | 22x35<br>25x25 | 25x40<br>30x30<br>35x25 | 25x45<br>30x35<br>35x30 | 30x50<br>35x40<br>40x35          | 35x50<br>40x40          |                |                |                         |                                  |                                  |                                           |                                           |                                           |                                  |                                  |
| 15,000             | 25x25          | 25x35<br>30x30<br>35x25 | 30x40<br>35x30          | 30x45<br>35x35                   |                         |                |                |                         |                                  |                                  |                                           |                                           |                                           |                                  |                                  |
| 22,000             | 25x35          | 30x35<br>35x30          | 35x35                   | 35x45                            |                         |                |                |                         |                                  |                                  |                                           |                                           |                                           |                                  |                                  |
| 33,000             | 30x35          | 35x35                   | 35x50                   |                                  |                         |                |                |                         |                                  |                                  |                                           |                                           |                                           |                                  |                                  |
| 39,000             | 35x30          | 35x40                   |                         |                                  |                         |                |                |                         |                                  |                                  |                                           |                                           |                                           |                                  |                                  |
| 47,000             | 35x35          | 35x45                   |                         |                                  |                         |                |                |                         |                                  |                                  |                                           |                                           |                                           |                                  |                                  |

Convert to inches, divide by 25.4.

DxL(mm)



3757 W. Touhy Ave., Lincolnwood, IL 60712 • (847) 675-1760 • Fax (847) 673-2850 • [www.illcap.com](http://www.illcap.com)

# LMU

+ 105°C Long Life  
Snap-Mount Aluminum  
Electrolytic Capacitors

## STANDARD PART LISTING

| Capacitance<br>( $\mu$ F) | WVDC | IC <sup>®</sup> PART<br>NUMBER | Maximum<br>ESR<br>m $\Omega$<br>120Hz, +20°C | Maximum RMS<br>Ripple Current<br>(A)<br>120Hz, +105°C | Dimensions<br>DxL<br>(mm) |
|---------------------------|------|--------------------------------|----------------------------------------------|-------------------------------------------------------|---------------------------|
| 47                        | 450  | 476LMU450M2BC                  | 7054.740                                     | 0.32                                                  | 22x25                     |
| 68                        | 350  | 686LMU350M2BC                  | 4876.071                                     | 0.34                                                  | 22x25                     |
| 68                        | 400  | 686LMU400M2BC                  | 3657.053                                     | 0.51                                                  | 22x25                     |
| 68                        | 450  | 686LMU450M2BD                  | 4876.071                                     | 0.42                                                  | 22x30                     |
| 68                        | 450  | 686LMU450M2CC                  | 4876.071                                     | 0.42                                                  | 25x25                     |
| 100                       | 200  | 107LMU200M2BA                  | 1657.864                                     | 0.45                                                  | 22x20                     |
| 100                       | 350  | 107LMU350M2BD                  | 3315.728                                     | 0.44                                                  | 22x30                     |
| 100                       | 350  | 107LMU350M2CC                  | 3315.728                                     | 0.44                                                  | 25x25                     |
| 100                       | 400  | 107LMU400M2BD                  | 2486.796                                     | 0.64                                                  | 22x30                     |
| 100                       | 400  | 107LMU400M2BE                  | 3315.728                                     | 0.52                                                  | 22x35                     |
| 100                       | 400  | 107LMU400M2CC                  | 2486.796                                     | 0.67                                                  | 25x25                     |
| 100                       | 400  | 107LMU400M2CD                  | 3315.728                                     | 0.52                                                  | 25x30                     |
| 100                       | 400  | 107LMU400M2DC                  | 3315.728                                     | 0.54                                                  | 30x25                     |
| 100                       | 450  | 107LMU450M2BF                  | 3315.728                                     | 0.58                                                  | 22x40                     |
| 100                       | 450  | 107LMU450M2CD                  | 3315.728                                     | 0.55                                                  | 25x30                     |
| 100                       | 450  | 107LMU450M2DC                  | 3315.728                                     | 0.57                                                  | 30x25                     |
| 150                       | 250  | 157LMU250M2BC                  | 1105.243                                     | 0.7                                                   | 22x25                     |
| 150                       | 350  | 157LMU350M2BE                  | 1657.864                                     | 0.66                                                  | 22x35                     |
| 150                       | 350  | 157LMU350M2CD                  | 1657.864                                     | 0.83                                                  | 25x30                     |
| 150                       | 350  | 157LMU350M2DC                  | 1657.864                                     | 0.83                                                  | 30x25                     |
| 150                       | 400  | 157LMU400M2BF                  | 1657.864                                     | 0.82                                                  | 22x40                     |
| 150                       | 400  | 157LMU400M2CE                  | 1657.864                                     | 0.84                                                  | 25x35                     |
| 150                       | 400  | 157LMU400M2DC                  | 1657.864                                     | 0.84                                                  | 30x25                     |
| 150                       | 450  | 157LMU450M2CF                  | 1657.864                                     | 0.75                                                  | 25x40                     |
| 150                       | 450  | 157LMU450M2DD                  | 1657.864                                     | 0.74                                                  | 30x30                     |
| 150                       | 450  | 157LMU450M2EC                  | 1657.864                                     | 0.75                                                  | 35x25                     |
| 220                       | 200  | 227LMU200M2BC                  | 753.575                                      | 0.82                                                  | 22x25                     |
| 220                       | 250  | 227LMU250M2BD                  | 753.575                                      | 0.9                                                   | 22x30                     |
| 220                       | 250  | 227LMU250M2CC                  | 753.575                                      | 0.9                                                   | 25x25                     |
| 220                       | 350  | 227LMU350M2BH                  | 1130.362                                     | 1.05                                                  | 22x50                     |
| 220                       | 350  | 227LMU350M2CF                  | 1130.362                                     | 1.04                                                  | 25x40                     |
| 220                       | 350  | 227LMU350M2DD                  | 1507.149                                     | 0.78                                                  | 30x30                     |
| 220                       | 350  | 227LMU350M2EC                  | 1130.362                                     | 1.04                                                  | 35x25                     |
| 220                       | 400  | 227LMU400M2CG                  | 1130.362                                     | 1.07                                                  | 25x45                     |
| 220                       | 400  | 227LMU400M2DE                  | 1130.362                                     | 1.06                                                  | 30x35                     |
| 220                       | 400  | 227LMU400M2ED                  | 1130.362                                     | 1.08                                                  | 35x30                     |
| 220                       | 450  | 227LMU450M2CH                  | 1507.149                                     | 1.01                                                  | 25x50                     |
| 220                       | 450  | 227LMU450M2DF                  | 1507.149                                     | 1.02                                                  | 30x40                     |
| 220                       | 450  | 227LMU450M2ED                  | 1507.149                                     | 0.98                                                  | 35x30                     |
| 220                       | 450  | 227LMU450M2FC                  | 1507.149                                     | 0.98                                                  | 40x25                     |
| 330                       | 160  | 337LMU160M2BC                  | 502.383                                      | 1                                                     | 22x25                     |

| Capacitance<br>( $\mu$ F) | WVDC | IC <sup>®</sup> PART<br>NUMBER | Maximum<br>ESR<br>m $\Omega$<br>120Hz, +20°C | Maximum RMS<br>Ripple Current<br>(A)<br>120Hz, +105°C | Dimensions<br>DxL<br>(mm) |
|---------------------------|------|--------------------------------|----------------------------------------------|-------------------------------------------------------|---------------------------|
| 330                       | 200  | 337LMU200M2CC                  | 502.383                                      | 1.1                                                   | 25x25                     |
| 330                       | 250  | 337LMU250M2BE                  | 753.575                                      | 1.19                                                  | 22x35                     |
| 330                       | 250  | 337LMU250M2BF                  | 502.383                                      | 1.2                                                   | 22x40                     |
| 330                       | 250  | 337LMU250M2CD                  | 753.575                                      | 1.2                                                   | 25x30                     |
| 330                       | 250  | 337LMU250M2DC                  | 502.383                                      | 1.2                                                   | 30x25                     |
| 330                       | 350  | 337LMU350M2CH                  | 753.575                                      | 1.23                                                  | 25x50                     |
| 330                       | 350  | 337LMU350M2DF                  | 753.575                                      | 1.34                                                  | 30x40                     |
| 330                       | 350  | 337LMU350M2ED                  | 753.575                                      | 1.33                                                  | 35x30                     |
| 330                       | 350  | 337LMU350M2EE                  | 1004.766                                     | 1.11                                                  | 35x35                     |
| 330                       | 350  | 337LMU350M2FD                  | 1004.766                                     | 1.12                                                  | 40x30                     |
| 330                       | 400  | 337LMU400M2DG                  | 753.575                                      | 1.39                                                  | 30x45                     |
| 330                       | 400  | 337LMU400M2EE                  | 753.575                                      | 1.35                                                  | 35x35                     |
| 330                       | 400  | 337LMU400M2EF                  | 1004.766                                     | 1.28                                                  | 35x40                     |
| 330                       | 400  | 337LMU400M2FD                  | 1004.766                                     | 1.21                                                  | 40x30                     |
| 330                       | 450  | 337LMU450M2DH                  | 1004.766                                     | 1.37                                                  | 30x50                     |
| 330                       | 450  | 337LMU450M2EF                  | 1004.766                                     | 1.35                                                  | 35x40                     |
| 330                       | 450  | 337LMU450M2FE                  | 1004.766                                     | 1.37                                                  | 40x35                     |
| 470                       | 160  | 477LMU160M2BE                  | 352.737                                      | 1.3                                                   | 22x35                     |
| 470                       | 160  | 477LMU160M2CC                  | 352.737                                      | 1.3                                                   | 25x25                     |
| 470                       | 200  | 477LMU200M2BF                  | 352.737                                      | 1.4                                                   | 22x40                     |
| 470                       | 200  | 477LMU200M2CD                  | 352.737                                      | 1.4                                                   | 25x30                     |
| 470                       | 200  | 477LMU200M2CE                  | 352.737                                      | 1.47                                                  | 25x35                     |
| 470                       | 200  | 477LMU200M2DC                  | 529.106                                      | 1.5                                                   | 30x25                     |
| 470                       | 250  | 477LMU250M2BH                  | 529.106                                      | 1.66                                                  | 22x50                     |
| 470                       | 250  | 477LMU250M2CF                  | 352.737                                      | 1.4                                                   | 25x40                     |
| 470                       | 250  | 477LMU250M2DD                  | 352.737                                      | 1.4                                                   | 30x30                     |
| 470                       | 250  | 477LMU250M2DE                  | 352.737                                      | 1.86                                                  | 30x35                     |
| 470                       | 250  | 477LMU250M2EC                  | 352.737                                      | 1.4                                                   | 35x25                     |
| 470                       | 350  | 477LMU350M2EF                  | 529.106                                      | 1.69                                                  | 35x40                     |
| 470                       | 350  | 477LMU350M2FE                  | 705.474                                      | 1.41                                                  | 40x35                     |
| 470                       | 400  | 477LMU400M2EG                  | 529.106                                      | 1.74                                                  | 35x45                     |
| 470                       | 400  | 477LMU400M2EH                  | 705.474                                      | 1.67                                                  | 35x50                     |
| 470                       | 450  | 477LMU450M2EH                  | 705.474                                      | 1.76                                                  | 35x50                     |
| 470                       | 450  | 477LMU450M2FF                  | 705.474                                      | 1.71                                                  | 40x40                     |
| 560                       | 200  | 567LMU200M2BG                  | 444.071                                      | 1.75                                                  | 22x45                     |
| 560                       | 200  | 567LMU200M2CE                  | 444.071                                      | 1.68                                                  | 25x35                     |
| 560                       | 200  | 567LMU200M2CF                  | 296.047                                      | 1.67                                                  | 25x40                     |
| 560                       | 250  | 567LMU250M2CG                  | 444.071                                      | 1.85                                                  | 25x45                     |
| 560                       | 250  | 567LMU250M2DE                  | 444.071                                      | 1.85                                                  | 30x35                     |
| 560                       | 250  | 567LMU250M2EC                  | 444.071                                      | 1.78                                                  | 35x25                     |
| 560                       | 350  | 567LMU350M2EG                  | 444.071                                      | 1.9                                                   | 35x45                     |

Aluminum Electrolytic



ILLINOIS CAPACITOR, INC. 3757 W. Touhy Ave., Lincolnwood, IL 60712 • (847) 675-1760 • Fax (847) 673-2850 • www.illcap.com

# LMU

+ 105°C Long Life  
Snap-Mount Aluminum  
Electrolytic Capacitors

## STANDARD PART LISTING

| Capacitance<br>( $\mu$ F) | WVDC | <b>ic</b> PART<br>NUMBER | Maximum<br>ESR<br>m $\Omega$<br>120Hz, +20°C | Maximum RMS<br>Ripple Current<br>(A)<br>120Hz, +105°C | Dimensions<br>DxL<br>(mm) |
|---------------------------|------|--------------------------|----------------------------------------------|-------------------------------------------------------|---------------------------|
| 560                       | 400  | 567LMU400M2EH            | 444.071                                      | 2.36                                                  | 35x50                     |
| 680                       | 100  | 687LMU100M2CC            | 365.705                                      | 0.95                                                  | 25x25                     |
| 680                       | 160  | 687LMU160M2CE            | 243.804                                      | 1.7                                                   | 25x35                     |
| 680                       | 160  | 687LMU160M2DC            | 243.804                                      | 1.7                                                   | 30x25                     |
| 680                       | 200  | 687LMU200M2BH            | 365.705                                      | 2.02                                                  | 22x50                     |
| 680                       | 200  | 687LMU200M2CF            | 243.804                                      | 1.7                                                   | 25x40                     |
| 680                       | 200  | 687LMU200M2DD            | 365.705                                      | 1.94                                                  | 30x30                     |
| 680                       | 200  | 687LMU200M2DE            | 243.804                                      | 1.88                                                  | 30x35                     |
| 680                       | 250  | 687LMU250M2CH            | 365.705                                      | 2.14                                                  | 25x50                     |
| 680                       | 250  | 687LMU250M2DE            | 365.705                                      | 2.04                                                  | 30x35                     |
| 680                       | 250  | 687LMU250M2DF            | 243.804                                      | 1.9                                                   | 30x40                     |
| 680                       | 250  | 687LMU250M2DG            | 243.804                                      | 2.25                                                  | 30x45                     |
| 680                       | 250  | 687LMU250M2ED            | 365.705                                      | 2.1                                                   | 35x30                     |
| 820                       | 200  | 827LMU200M2CG            | 303.268                                      | 2.27                                                  | 25x45                     |
| 820                       | 200  | 827LMU200M2DE            | 303.268                                      | 2.26                                                  | 30x35                     |
| 820                       | 200  | 827LMU200M2DF            | 202.179                                      | 2.08                                                  | 30x40                     |
| 820                       | 200  | 827LMU200M2ED            | 303.268                                      | 2.33                                                  | 35x30                     |
| 820                       | 250  | 827LMU250M2DG            | 303.268                                      | 2.49                                                  | 30x45                     |
| 820                       | 250  | 827LMU250M2EE            | 303.268                                      | 2.45                                                  | 35x35                     |
| 820                       | 250  | 827LMU250M2EF            | 202.179                                      | 2.33                                                  | 35x40                     |
| 1000                      | 80   | 108LMU080M2BD            | 248.680                                      | 1.26                                                  | 22x30                     |
| 1000                      | 80   | 108LMU080M2CC            | 248.680                                      | 1.21                                                  | 25x25                     |
| 1000                      | 100  | 108LMU100M2BF            | 248.680                                      | 1.76                                                  | 22x40                     |
| 1000                      | 100  | 108LMU100M2CD            | 248.680                                      | 1.71                                                  | 25x30                     |
| 1000                      | 100  | 108LMU100M2DC            | 248.680                                      | 1.65                                                  | 30x25                     |
| 1000                      | 160  | 108LMU160M2CG            | 165.786                                      | 2.1                                                   | 25x45                     |
| 1000                      | 160  | 108LMU160M2DE            | 165.786                                      | 2.1                                                   | 30x35                     |
| 1000                      | 160  | 108LMU160M2ED            | 165.786                                      | 2.1                                                   | 35x30                     |
| 1000                      | 200  | 108LMU200M2CH            | 248.680                                      | 2.63                                                  | 25x50                     |
| 1000                      | 200  | 108LMU200M2DF            | 248.680                                      | 2.64                                                  | 30x40                     |
| 1000                      | 200  | 108LMU200M2DG            | 165.786                                      | 2.35                                                  | 30x45                     |
| 1000                      | 200  | 108LMU200M2EE            | 165.786                                      | 2.28                                                  | 35x35                     |
| 1000                      | 250  | 108LMU250M2EF            | 165.786                                      | 2.3                                                   | 35x40                     |
| 1000                      | 250  | 108LMU250M2EG            | 165.786                                      | 2.48                                                  | 35x45                     |
| 1200                      | 200  | 128LMU200M2DG            | 207.233                                      | 3.04                                                  | 30x45                     |
| 1200                      | 200  | 128LMU200M2DH            | 138.155                                      | 2.65                                                  | 30x50                     |
| 1200                      | 200  | 128LMU200M2EE            | 207.233                                      | 3                                                     | 35x35                     |
| 1200                      | 200  | 128LMU200M2EG            | 138.155                                      | 2.58                                                  | 35x45                     |
| 1200                      | 250  | 128LMU250M2EG            | 207.233                                      | 3.29                                                  | 35x45                     |
| 1500                      | 63   | 158LMU063M2CC            | 165.786                                      | 1.4                                                   | 25x25                     |
| 1500                      | 80   | 158LMU080M2DC            | 165.786                                      | 1.5                                                   | 30x25                     |
| 1500                      | 100  | 158LMU100M2EC            | 165.786                                      | 2.05                                                  | 35x25                     |

| Capacitance<br>( $\mu$ F) | WVDC | <b>ic</b> PART<br>NUMBER | Maximum<br>ESR<br>m $\Omega$<br>120Hz, +20°C | Maximum RMS<br>Ripple Current<br>(A)<br>120Hz, +105°C | Dimensions<br>DxL<br>(mm) |
|---------------------------|------|--------------------------|----------------------------------------------|-------------------------------------------------------|---------------------------|
| 1500                      | 160  | 158LMU160M2EE            | 110.524                                      | 2.84                                                  | 35x35                     |
| 1500                      | 200  | 158LMU200M2EG            | 110.524                                      | 2.8                                                   | 35x45                     |
| 1500                      | 200  | 158LMU200M2EH            | 110.524                                      | 3.18                                                  | 35x50                     |
| 1500                      | 250  | 158LMU250M2EH            | 165.786                                      | 3.68                                                  | 35x50                     |
| 1800                      | 200  | 188LMU200M2EH            | 92.104                                       | 3.3                                                   | 35x50                     |
| 2200                      | 50   | 228LMU050M2BD            | 150.715                                      | 1.4                                                   | 22x30                     |
| 2200                      | 50   | 228LMU050M2CC            | 150.715                                      | 1.35                                                  | 25x25                     |
| 2200                      | 63   | 228LMU063M2CD            | 113.036                                      | 1.76                                                  | 25x30                     |
| 2200                      | 63   | 228LMU063M2DC            | 113.036                                      | 1.7                                                   | 30x25                     |
| 2200                      | 80   | 228LMU080M2DE            | 113.036                                      | 2.1                                                   | 30x35                     |
| 2200                      | 80   | 228LMU080M2EC            | 113.036                                      | 2.03                                                  | 35x25                     |
| 2200                      | 100  | 228LMU100M2DF            | 113.036                                      | 2.85                                                  | 30x40                     |
| 2200                      | 100  | 228LMU100M2EE            | 113.036                                      | 2.78                                                  | 35x35                     |
| 2200                      | 100  | 228LMU100M2FD            | 113.036                                      | 2.7                                                   | 40x30                     |
| 2200                      | 180  | 228LMU180M2EH            | 75.357                                       | 3.6                                                   | 35x50                     |
| 3300                      | 35   | 338LMU035M2BD            | 125.596                                      | 1.55                                                  | 22x30                     |
| 3300                      | 35   | 338LMU035M2CC            | 125.596                                      | 1.5                                                   | 25x25                     |
| 3300                      | 50   | 338LMU050M2BE            | 125.596                                      | 2.11                                                  | 22x35                     |
| 3300                      | 50   | 338LMU050M2CD            | 125.596                                      | 2.06                                                  | 25x30                     |
| 3300                      | 50   | 338LMU050M2DC            | 125.596                                      | 2                                                     | 30x25                     |
| 3300                      | 63   | 338LMU063M2DD            | 100.477                                      | 2.22                                                  | 30x30                     |
| 3300                      | 63   | 338LMU063M2EC            | 100.477                                      | 2.15                                                  | 35x25                     |
| 3300                      | 80   | 338LMU080M2EE            | 100.477                                      | 2.58                                                  | 35x35                     |
| 3300                      | 100  | 338LMU100M2EG            | 100.477                                      | 2.98                                                  | 35x45                     |
| 3300                      | 100  | 338LMU100M2FE            | 100.477                                      | 2.9                                                   | 40x35                     |
| 4700                      | 25   | 478LMU025M2BD            | 105.821                                      | 1.6                                                   | 22x30                     |
| 4700                      | 35   | 478LMU035M2BE            | 88.184                                       | 1.88                                                  | 22x35                     |
| 4700                      | 35   | 478LMU035M2CC            | 88.184                                       | 1.83                                                  | 25x25                     |
| 4700                      | 50   | 478LMU050M2BH            | 88.184                                       | 2.5                                                   | 22x50                     |
| 4700                      | 50   | 478LMU050M2CF            | 88.184                                       | 2.45                                                  | 25x40                     |
| 4700                      | 50   | 478LMU050M2DD            | 88.184                                       | 2.39                                                  | 30x30                     |
| 4700                      | 50   | 478LMU050M2EC            | 88.184                                       | 2.32                                                  | 35x25                     |
| 4700                      | 63   | 478LMU063M2DF            | 70.547                                       | 2.94                                                  | 30x40                     |
| 4700                      | 63   | 478LMU063M2ED            | 70.547                                       | 2.87                                                  | 35x30                     |
| 4700                      | 80   | 478LMU080M2EG            | 70.547                                       | 3.38                                                  | 35x45                     |
| 6800                      | 16   | 688LMU016M2BC            | 73.141                                       | 1.56                                                  | 22x25                     |
| 6800                      | 25   | 688LMU025M2BE            | 73.141                                       | 2.14                                                  | 22x35                     |
| 6800                      | 25   | 688LMU025M2CC            | 73.141                                       | 2.09                                                  | 25x25                     |
| 6800                      | 35   | 688LMU035M2BG            | 60.951                                       | 2.53                                                  | 22x45                     |
| 6800                      | 35   | 688LMU035M2CE            | 60.951                                       | 2.48                                                  | 25x35                     |
| 6800                      | 35   | 688LMU035M2DC            | 60.951                                       | 2.42                                                  | 30x25                     |
| 6800                      | 50   | 688LMU050M2DF            | 60.951                                       | 3.26                                                  | 30x40                     |

# LMU

+ 105°C Long Life  
Snap-Mount Aluminum  
Electrolytic Capacitors

## STANDARD PART LISTING

| Capacitance<br>( $\mu$ F) | WVDC | ic <sup>®</sup> PART<br>NUMBER | Maximum<br>ESR<br>m $\Omega$<br>120Hz, +20°C | Maximum RMS<br>Ripple Current<br>(A)<br>120Hz, +105°C | Dimensions<br>DxL<br>(mm) |
|---------------------------|------|--------------------------------|----------------------------------------------|-------------------------------------------------------|---------------------------|
| 6800                      | 50   | 688LMU050M2ED                  | 60.951                                       | 3.19                                                  | 35x30                     |
| 6800                      | 50   | 688LMU050M2FC                  | 60.951                                       | 2.78                                                  | 40x25                     |
| 6800                      | 63   | 688LMU063M2EF                  | 60.951                                       | 3.68                                                  | 35x40                     |
| 10000                     | 16   | 109LMU016M2BE                  | 116.050                                      | 2.19                                                  | 22x35                     |
| 10000                     | 16   | 109LMU016M2CC                  | 116.050                                      | 1.94                                                  | 25x25                     |
| 10000                     | 25   | 109LMU025M2CF                  | 66.315                                       | 2.83                                                  | 25x40                     |
| 10000                     | 25   | 109LMU025M2DD                  | 66.315                                       | 2.72                                                  | 30x30                     |
| 10000                     | 25   | 109LMU025M2EC                  | 66.315                                       | 2.65                                                  | 35x25                     |
| 10000                     | 35   | 109LMU035M2CG                  | 58.025                                       | 3.4                                                   | 25x45                     |
| 10000                     | 35   | 109LMU035M2DE                  | 58.025                                       | 3.34                                                  | 30x35                     |
| 10000                     | 35   | 109LMU035M2ED                  | 58.025                                       | 3.27                                                  | 35x30                     |
| 10000                     | 50   | 109LMU050M2DH                  | 49.736                                       | 4.05                                                  | 30x50                     |
| 10000                     | 50   | 109LMU050M2EF                  | 49.736                                       | 3.98                                                  | 35x40                     |
| 10000                     | 50   | 109LMU050M2FE                  | 49.736                                       | 3.9                                                   | 40x35                     |
| 10000                     | 63   | 109LMU063M2EH                  | 49.736                                       | 4.48                                                  | 35x50                     |
| 10000                     | 63   | 109LMU063M2FF                  | 49.736                                       | 4.4                                                   | 40x40                     |
| 15000                     | 10   | 159LMU010M2CC                  | 77.367                                       | 1.92                                                  | 25x25                     |
| 15000                     | 16   | 159LMU016M2CE                  | 77.367                                       | 2.8                                                   | 25x35                     |

| Capacitance<br>( $\mu$ F) | WVDC | ic <sup>®</sup> PART<br>NUMBER | Maximum<br>ESR<br>m $\Omega$<br>120Hz, +20°C | Maximum RMS<br>Ripple Current<br>(A)<br>120Hz, +105°C | Dimensions<br>DxL<br>(mm) |
|---------------------------|------|--------------------------------|----------------------------------------------|-------------------------------------------------------|---------------------------|
| 15000                     | 16   | 159LMU016M2DD                  | 77.367                                       | 2.8                                                   | 30x30                     |
| 15000                     | 16   | 159LMU016M2EC                  | 77.367                                       | 2.67                                                  | 35x25                     |
| 15000                     | 25   | 159LMU025M2DF                  | 44.210                                       | 3.13                                                  | 30x40                     |
| 15000                     | 25   | 159LMU025M2ED                  | 44.210                                       | 3.06                                                  | 35x30                     |
| 15000                     | 35   | 159LMU035M2DG                  | 38.683                                       | 4                                                     | 30x45                     |
| 15000                     | 35   | 159LMU035M2EE                  | 38.683                                       | 3.93                                                  | 35x35                     |
| 22000                     | 10   | 229LMU010M2CE                  | 52.750                                       | 2.46                                                  | 25x35                     |
| 22000                     | 16   | 229LMU016M2DE                  | 52.750                                       | 3.48                                                  | 30x35                     |
| 22000                     | 16   | 229LMU016M2ED                  | 52.750                                       | 3.35                                                  | 35x30                     |
| 22000                     | 25   | 229LMU025M2EE                  | 30.143                                       | 4.07                                                  | 35x35                     |
| 22000                     | 35   | 229LMU035M2EG                  | 26.375                                       | 5.12                                                  | 35x45                     |
| 33000                     | 10   | 339LMU010M2DE                  | 35.167                                       | 3.05                                                  | 30x35                     |
| 33000                     | 16   | 339LMU016M2EE                  | 35.167                                       | 4.06                                                  | 35x35                     |
| 33000                     | 25   | 339LMU025M2EH                  | 20.095                                       | 4.78                                                  | 35x50                     |
| 39000                     | 10   | 399LMU010M2ED                  | 29.757                                       | 3.09                                                  | 35x30                     |
| 39000                     | 16   | 399LMU016M2EF                  | 29.757                                       | 4.08                                                  | 35x40                     |
| 47000                     | 10   | 479LMU010M2EE                  | 24.692                                       | 3.51                                                  | 35x35                     |
| 47000                     | 16   | 479LMU016M2EG                  | 24.692                                       | 4.45                                                  | 35x45                     |

Aluminum Electrolytic



ILLINOIS CAPACITOR, INC. 3757 W. Touhy Ave., Lincolnwood, IL 60712 • (847) 675-1760 • Fax (847) 673-2850 • www.illcap.com