



**THE DATASHEET OF  
UCD1K101MNQ1MS**



# ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

**UCD** Chip Type, Low Impedance

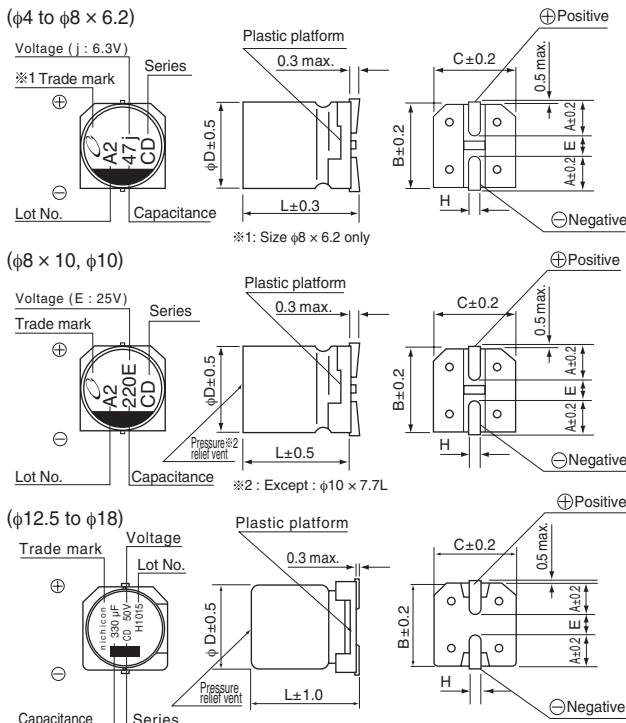


- Chip type, low impedance temperature range up to +105°C.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).
- AEC-Q200 compliant. Please contact us for details.



| Item   | Performance Characteristics   |   |      |          |          |           |          |      |      |      |                                      |   |
|--|---|---|------|----------|----------|-----------|----------|------|------|------|--------------------------------------|---|
| Category Temperature Range   | - 55 to +105°C  |   |      |          |          |           |          |      |      |      |                                      |   |
| Rated Voltage Range  | 6.3 to 100V   |   |      |          |          |           |          |      |      |      |                                      |   |
| Rated Capacitance Range  | 1 to 3300µF   |   |      |          |          |           |          |      |      |      |                                      |   |
| Capacitance Tolerance  | ±20% at 120Hz, 20°C   |   |      |          |          |           |          |      |      |      |                                      |   |
| Leakage Current ※  | After 2 minutes' application of rated voltage at 20°C, leakage current is not more than 0.01 CV or 3 (µA), whichever is greater.  |   |      |          |          |           |          |      |      |      |                                      |   |
| Tangent of loss angle (tan δ)  | Rated voltage (V)   | 6.3   | 10   | 16       | 25       | 35        | 50       | 63   | 80   | 100  | Measurement frequency: 120Hz at 20°C |   |
|  | tan δ (max.)  | 0.26  | 0.19 | 0.16     | 0.14     | 0.12      | 0.10     | 0.08 | 0.08 | 0.07 |                                      |   |
| For capacitance of more than 1000µF, add 0.02 for every increase of 1000µF. (φ12.5 to φ18) |   |   |      |          |          |           |          |      |      |      |                                      |   |
| Stability at Low Temperature   | Rated voltage (V)   | 6.3   | 10   | 16       | 25       | 35        | 50       | 63   | 80   | 100  | Measurement frequency: 120Hz         |   |
|  | Impedance ratio (max.)  | Z(-25°C) / Z(+20°C)                               | 2    | 2        | 2        | 2         | 2        | 2    | 2    | 2    |                                      | 2 |
|  |   | Z(-40°C) / Z(+20°C)                               | 3    | 3        | 3        | 3         | 3        | 3    | 3    | 3    |                                      | 3 |
| Z(-55°C) / Z(+20°C)  | 4   | 4   | 4    | 3        | 3        | 3         | 3        | 3    | 3    | 3    |                                      |   |
| Endurance  | The specifications listed below shall be met when the capacitors are restored to 20°C after the rated voltage is applied at 105°C for the conditions listed at right.   |   |      |          |          |           |          |      |      |      |                                      |   |
|  | Rated Voltage   | Size (mm)   |      | ~7.7L    | 10L      | φ10×13.5L | 13.5L~   |      |      |      |                                      |   |
|  | 6.3 ~ 50V   |   |      | 2000hrs. | 5000hrs. | 5000hrs.  | 5000hrs. |      |      |      |                                      |   |
|  | 63 ~ 100V   |   |      | 2000hrs. | 2000hrs. | —         | 5000hrs. |      |      |      |                                      |   |
| Capacitance Change   | Within ± 30% of the initial capacitance value   |   |      |          |          |           |          |      |      |      |                                      |   |
| tan δ  | 200% or less than the initial specified value   |   |      |          |          |           |          |      |      |      |                                      |   |
| Leakage current  | 300% or less than the initial specified value for 63V or more   |   |      |          |          |           |          |      |      |      |                                      |   |
| Leakage current  | Less than or equal to the initial specified value   |   |      |          |          |           |          |      |      |      |                                      |   |
| Shelf Life   | After storing the capacitors under no load at 105°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they shall meet the specified values for the endurance characteristics listed above. |   |      |          |          |           |          |      |      |      |                                      |   |
| Resistance to soldering heat   | The capacitors are kept on a hot plate for 30 seconds, which is maintained at 250°C. The capacitors shall meet the characteristic requirements listed at right when they are removed from the plate and restored to 20°C.               |   |      |          |          |           |          |      |      |      |                                      |   |
|  | Capacitance Change  | Within ± 10% of the initial capacitance value     |      |          |          |           |          |      |      |      |                                      |   |
|  | tan δ   | Less than or equal to the initial specified value |      |          |          |           |          |      |      |      |                                      |   |
| Leakage current  | Less than or equal to the initial specified value   |   |      |          |          |           |          |      |      |      |                                      |   |
| Marking  | Black print on the case top.  |   |      |          |          |           |          |      |      |      |                                      |   |

## ■ Chip Type

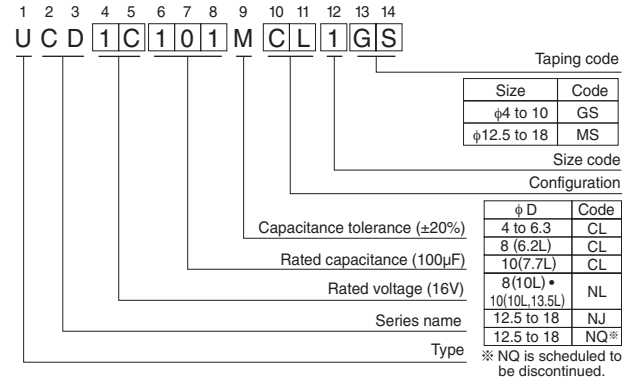


For φ8×10L, φ10×10L, φ12.5×13.5L, φ16×16.5L, and φ18×16.5L, some part numbers can be produced vibration-resistant construction. Please contact us for details.

● Dimension table in next page.

※ I : Leakage Current (µA), C : Rated Capacitance (µF), V : Rated Voltage (V)

## Type numbering system (Example : 16V 100µF)



| φD×L | 4 × 5.8    | 5 × 5.8    | 6.3 × 5.8  | 6.3 × 7.7  | 8 × 6.2    | 8 × 10     | 10 × 7.7   | 10 × 10    |
|------|------------|------------|------------|------------|------------|------------|------------|------------|
| A    | 1.8        | 2.1        | 2.4        | 2.4        | 3.3        | 2.9        | 3.2        | 3.2        |
| B    | 4.3        | 5.3        | 6.6        | 6.6        | 8.3        | 8.3        | 10.3       | 10.3       |
| C    | 4.3        | 5.3        | 6.6        | 6.6        | 8.3        | 8.3        | 10.3       | 10.3       |
| E    | 1.0        | 1.3        | 2.2        | 2.2        | 2.3        | 3.1        | 4.5        | 4.5        |
| L    | 5.8        | 5.8        | 5.8        | 7.7        | 6.2        | 10         | 7.7        | 10         |
| H    | 0.5 to 0.8 | 0.5 to 0.8 | 0.5 to 0.8 | 0.5 to 0.8 | 0.5 to 0.8 | 0.8 to 1.1 | 0.8 to 1.1 | 0.8 to 1.1 |

| φD×L | 10 × 13.5  | 12.5 × 13.5 | 16 × 16.5  | 18 × 16.5  |
|------|------------|-------------|------------|------------|
| A    | 3.2        | 5.15        | 5.65       | 6.65       |
| B    | 10.3       | 13.6        | 17.1       | 19.1       |
| C    | 10.3       | 13.6        | 17.1       | 19.1       |
| E    | 4.5        | (3.3)       | (5.8)      | (5.8)      |
| L    | 13.5       | 13.5        | 16.5       | 16.5       |
| H    | 0.8 to 1.1 | 1.0 to 1.4  | 1.0 to 1.4 | 1.0 to 1.4 |

Please contact us for the dimensions for NQ.

## Voltage

| V    | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 80 | 100 |
|------|-----|----|----|----|----|----|----|----|-----|
| Code | j   | A  | C  | E  | V  | H  | J  | K  | 2A  |

## • Frequency coefficient of rated ripple current

| Frequency   | 50Hz | 120Hz | 300Hz | 1kHz | 10kHz or more |
|-------------|------|-------|-------|------|---------------|
| Coefficient | 0.35 | 0.50  | 0.64  | 0.83 | 1.00          |

CAT.8100L

## UCD

### ■ Dimensions

| Rated Voltage (V)<br>(code) | Rated Capacitance (μF) | Case Size φD×L (mm) | tan δ | Leakage Current (μA)<br>(at 20°C after 2 minutes) | Impedance (Ω)<br>max.<br>(20°C/100kHz) | Rated Ripple (mA)<br>(105°C/100kHz) | Part Number    |
|-----------------------------|------------------------|---------------------|-------|---|--|-------------------------------------|----------------|
| 6.3<br>(0J)                 | 22                     | 4×5.8               | 0.26  | 3   | 1.35                                   | 90                                  | UCD0J220MCL1GS |
|                             | 27                     | 4×5.8               | 0.26  | 3   | 1.35                                   | 90                                  | UCD0J270MCL1GS |
|                             | 33                     | 5×5.8               | 0.26  | 3   | 0.70                                   | 160                                 | UCD0J330MCL1GS |
|                             | 47                     | 4×5.8               | 0.26  | 3   | 1.35                                   | 90                                  | UCD0J470MCL6GS |
|                             | 47                     | 5×5.8               | 0.26  | 3   | 0.70                                   | 160                                 | UCD0J470MCL1GS |
|                             | 56                     | 5×5.8               | 0.26  | 3.528   | 0.70                                   | 160                                 | UCD0J560MCL1GS |
|                             | 68                     | 6.3×5.8             | 0.26  | 4.284   | 0.36                                   | 240                                 | UCD0J680MCL1GS |
|                             | 100                    | 5×5.8               | 0.26  | 6.3   | 0.70                                   | 160                                 | UCD0J101MCL6GS |
|                             | 100                    | 6.3×5.8             | 0.26  | 6.3   | 0.36                                   | 240                                 | UCD0J101MCL1GS |
|                             | 150                    | 6.3×5.8             | 0.26  | 9.45  | 0.36                                   | 240                                 | UCD0J151MCL1GS |
|                             | 220                    | 6.3×5.8             | 0.26  | 13.86   | 0.36                                   | 240                                 | UCD0J221MCL1GS |
|                             | 330                    | 6.3×7.7             | 0.26  | 20.79   | 0.32                                   | 290                                 | UCD0J331MCL1GS |
|                             | 330                    | 8×6.2               | 0.26  | 20.79   | 0.26                                   | 300                                 | UCD0J331MCL6GS |
|                             | 470                    | 8×10                | 0.26  | 29.61   | 0.16                                   | 600                                 | UCD0J471MNL1GS |
|                             | 470                    | 10×7.7              | 0.26  | 29.61   | 0.18                                   | 600                                 | UCD0J471MCL6GS |
|                             | 680                    | 8×10                | 0.26  | 42.84   | 0.16                                   | 600                                 | UCD0J681MNL1GS |
|                             | 680                    | 10×7.7              | 0.26  | 42.84   | 0.18                                   | 600                                 | UCD0J681MCL6GS |
|                             | 1000                   | 8×10                | 0.26  | 63  | 0.16                                   | 600                                 | UCD0J102MNL1GS |
|                             | 1500                   | 10×10               | 0.26  | 94.5  | 0.080                                  | 850                                 | UCD0J152MNL1GS |
| 2200                        | 10×13.5                | 0.26                | 138.6 | 0.080   | 950                                    | UCD0J222MNL1GS                      |                |
| 3300                        | 12.5×13.5              | 0.30                | 207.9 | 0.080   | 1100                                   | UCD0J332MNL1MS                      |                |
| 10<br>(1A)                  | 22                     | 4×5.8               | 0.19  | 3   | 1.35                                   | 90                                  | UCD1A220MCL1GS |
|                             | 27                     | 5×5.8               | 0.19  | 3   | 0.70                                   | 160                                 | UCD1A270MCL1GS |
|                             | 33                     | 4×5.8               | 0.19  | 3.3   | 1.35                                   | 90                                  | UCD1A330MCL6GS |
|                             | 33                     | 5×5.8               | 0.19  | 3.3   | 0.70                                   | 160                                 | UCD1A330MCL1GS |
|                             | 47                     | 6.3×5.8             | 0.19  | 4.7   | 0.36                                   | 240                                 | UCD1A470MCL1GS |
|                             | 56                     | 6.3×5.8             | 0.19  | 5.6   | 0.36                                   | 240                                 | UCD1A560MCL1GS |
|                             | 68                     | 6.3×5.8             | 0.19  | 6.8   | 0.36                                   | 240                                 | UCD1A680MCL1GS |
|                             | 100                    | 6.3×5.8             | 0.19  | 10  | 0.36                                   | 240                                 | UCD1A101MCL1GS |
|                             | 150                    | 6.3×5.8             | 0.19  | 15  | 0.36                                   | 240                                 | UCD1A151MCL1GS |
|                             | 220                    | 6.3×7.7             | 0.19  | 22  | 0.32                                   | 290                                 | UCD1A221MCL1GS |
|                             | 220                    | 8×6.2               | 0.19  | 22  | 0.26                                   | 300                                 | UCD1A221MCL6GS |
|                             | 330                    | 8×10                | 0.19  | 33  | 0.16                                   | 600                                 | UCD1A331MNL1GS |
|                             | 330                    | 10×7.7              | 0.19  | 33  | 0.18                                   | 600                                 | UCD1A331MCL6GS |
|                             | 470                    | 8×10                | 0.19  | 47  | 0.16                                   | 600                                 | UCD1A471MNL1GS |
|                             | 470                    | 10×7.7              | 0.19  | 47  | 0.18                                   | 600                                 | UCD1A471MCL6GS |
|                             | 680                    | 10×10               | 0.19  | 68  | 0.080                                  | 850                                 | UCD1A681MNL1GS |
|                             | 1000                   | 10×10               | 0.19  | 100   | 0.080                                  | 850                                 | UCD1A102MNL1GS |
|                             | 1500                   | 10×13.5             | 0.19  | 150   | 0.080                                  | 950                                 | UCD1A152MNL1GS |
|                             | 2200                   | 12.5×13.5           | 0.21  | 220   | 0.080                                  | 1100                                | UCD1A222MNL1MS |
| 16<br>(1C)                  | 10                     | 4×5.8               | 0.16  | 3   | 1.35                                   | 90                                  | UCD1C100MCL1GS |
|                             | 15                     | 4×5.8               | 0.16  | 3   | 1.35                                   | 90                                  | UCD1C150MCL1GS |
|                             | 22                     | 4×5.8               | 0.16  | 3.52  | 1.35                                   | 90                                  | UCD1C220MCL6GS |
|                             | 22                     | 5×5.8               | 0.16  | 3.52  | 0.70                                   | 160                                 | UCD1C220MCL1GS |
|                             | 27                     | 5×5.8               | 0.16  | 4.32  | 0.70                                   | 160                                 | UCD1C270MCL1GS |
|                             | 33                     | 6.3×5.8             | 0.16  | 5.28  | 0.36                                   | 240                                 | UCD1C330MCL1GS |
|                             | 47                     | 5×5.8               | 0.16  | 7.52  | 0.70                                   | 160                                 | UCD1C470MCL6GS |
|                             | 47                     | 6.3×5.8             | 0.16  | 7.52  | 0.36                                   | 240                                 | UCD1C470MCL1GS |
|                             | 56                     | 6.3×5.8             | 0.16  | 8.96  | 0.36                                   | 240                                 | UCD1C560MCL1GS |
|                             | 68                     | 6.3×5.8             | 0.16  | 10.88   | 0.36                                   | 240                                 | UCD1C680MCL1GS |
|                             | 100                    | 6.3×5.8             | 0.16  | 16  | 0.36                                   | 240                                 | UCD1C101MCL1GS |

UCD

## ■ Dimensions

| Rated Voltage (V)<br>(code) | Rated Capacitance (μF) | Case Size φD×L (mm) | tan δ | Leakage Current (μA)<br>(at 20°C after 2 minutes) | Impedance (Ω)<br>max.<br>(20°C/100kHz) | Rated Ripple (mA)<br>(105°C/100kHz) | Part Number    |
|-----------------------------|------------------------|---------------------|-------|---|--|-------------------------------------|----------------|
| 16<br>(1C)                  | 150                    | 6.3×7.7             | 0.16  | 24  | 0.32                                   | 290                                 | UCD1C151MCL1GS |
|                             | 220                    | 6.3×7.7             | 0.16  | 35.2  | 0.32                                   | 290                                 | UCD1C221MCL1GS |
|                             | 220                    | 8×6.2               | 0.16  | 35.2  | 0.26                                   | 300                                 | UCD1C221MCL6GS |
|                             | 330                    | 8×10                | 0.16  | 52.8  | 0.16                                   | 600                                 | UCD1C331MNL1GS |
|                             | 330                    | 10×7.7              | 0.16  | 52.8  | 0.18                                   | 600                                 | UCD1C331MCL6GS |
|                             | 470                    | 8×10                | 0.16  | 75.2  | 0.16                                   | 600                                 | UCD1C471MNL1GS |
|                             | 470                    | 10×7.7              | 0.16  | 75.2  | 0.18                                   | 600                                 | UCD1C471MCL6GS |
|                             | 680                    | 10×10               | 0.16  | 108.8   | 0.080                                  | 850                                 | UCD1C681MNL1GS |
|                             | 1000                   | 10×13.5             | 0.16  | 160   | 0.080                                  | 950                                 | UCD1C102MNL1GS |
| 1500                        | 12.5×13.5              | 0.16                | 240   | 0.080   | 1100                                   | UCD1C152MNJ1MS                      |                |
| 25<br>(1E)                  | 10                     | 4×5.8               | 0.14  | 3   | 1.35                                   | 90                                  | UCD1E100MCL1GS |
|                             | 15                     | 5×5.8               | 0.14  | 3.75  | 0.70                                   | 160                                 | UCD1E150MCL1GS |
|                             | 22                     | 5×5.8               | 0.14  | 5.5   | 0.70                                   | 160                                 | UCD1E220MCL1GS |
|                             | 27                     | 6.3×5.8             | 0.14  | 6.75  | 0.36                                   | 240                                 | UCD1E270MCL1GS |
|                             | 33                     | 5×5.8               | 0.14  | 8.25  | 0.70                                   | 160                                 | UCD1E330MCL6GS |
|                             | 33                     | 6.3×5.8             | 0.14  | 8.25  | 0.36                                   | 240                                 | UCD1E330MCL1GS |
|                             | 47                     | 6.3×5.8             | 0.14  | 11.75   | 0.36                                   | 240                                 | UCD1E470MCL1GS |
|                             | 56                     | 6.3×5.8             | 0.14  | 14  | 0.36                                   | 240                                 | UCD1E560MCL1GS |
|                             | 68                     | 6.3×5.8             | 0.14  | 17  | 0.36                                   | 240                                 | UCD1E680MCL1GS |
|                             | 100                    | 6.3×7.7             | 0.14  | 25  | 0.32                                   | 290                                 | UCD1E101MCL1GS |
|                             | 100                    | 8×6.2               | 0.14  | 25  | 0.26                                   | 300                                 | UCD1E101MCL6GS |
|                             | 150                    | 8×10                | 0.14  | 37.5  | 0.16                                   | 600                                 | UCD1E151MNL1GS |
|                             | 150                    | 10×7.7              | 0.14  | 37.5  | 0.18                                   | 600                                 | UCD1E151MCL6GS |
|                             | 220                    | 8×10                | 0.14  | 55  | 0.16                                   | 600                                 | UCD1E221MNL1GS |
|                             | 220                    | 10×7.7              | 0.14  | 55  | 0.18                                   | 600                                 | UCD1E221MCL6GS |
|                             | 330                    | 8×10                | 0.14  | 82.5  | 0.16                                   | 600                                 | UCD1E331MNL1GS |
|                             | 470                    | 10×10               | 0.14  | 117.5   | 0.080                                  | 850                                 | UCD1E471MNL1GS |
|                             | 680                    | 10×13.5             | 0.14  | 170   | 0.080                                  | 950                                 | UCD1E681MNL1GS |
| 1000                        | 12.5×13.5              | 0.14                | 250   | 0.080   | 1100                                   | UCD1E102MNJ1MS                      |                |
| 2200                        | 16×16.5                | 0.16                | 550   | 0.035   | 1800                                   | UCD1E222MNJ1MS                      |                |
| 35<br>(1V)                  | 4.7                    | 4×5.8               | 0.12  | 3   | 1.35                                   | 90                                  | UCD1V47MCL1GS  |
|                             | 10                     | 4×5.8               | 0.12  | 3.5   | 1.35                                   | 90                                  | UCD1V100MCL6GS |
|                             | 10                     | 5×5.8               | 0.12  | 3.5   | 0.70                                   | 160                                 | UCD1V100MCL1GS |
|                             | 22                     | 5×5.8               | 0.12  | 7.7   | 0.70                                   | 160                                 | UCD1V220MCL1GS |
|                             | 33                     | 6.3×5.8             | 0.12  | 11.55   | 0.36                                   | 240                                 | UCD1V330MCL1GS |
|                             | 47                     | 6.3×5.8             | 0.12  | 16.45   | 0.36                                   | 240                                 | UCD1V470MCL1GS |
|                             | 68                     | 6.3×7.7             | 0.12  | 23.8  | 0.32                                   | 290                                 | UCD1V680MCL1GS |
|                             | 100                    | 6.3×7.7             | 0.12  | 35  | 0.32                                   | 290                                 | UCD1V101MCL6GS |
|                             | 100                    | 8×10                | 0.12  | 35  | 0.16                                   | 600                                 | UCD1V101MNL1GS |
|                             | 150                    | 8×10                | 0.12  | 52.5  | 0.16                                   | 600                                 | UCD1V151MNL1GS |
|                             | 150                    | 10×7.7              | 0.12  | 52.5  | 0.18                                   | 600                                 | UCD1V151MCL6GS |
|                             | 220                    | 8×10                | 0.12  | 77  | 0.16                                   | 600                                 | UCD1V221MNL1GS |
|                             | 220                    | 10×7.7              | 0.12  | 77  | 0.18                                   | 600                                 | UCD1V221MCL6GS |
|                             | 330                    | 10×10               | 0.12  | 115.5   | 0.080                                  | 850                                 | UCD1V331MNL1GS |
|                             | 470                    | 10×13.5             | 0.12  | 164.5   | 0.080                                  | 950                                 | UCD1V471MNL6GS |
|                             | 470                    | 12.5×13.5           | 0.12  | 164.5   | 0.080                                  | 1100                                | UCD1V471MNJ1MS |
|                             | 680                    | 12.5×13.5           | 0.12  | 238   | 0.080                                  | 1100                                | UCD1V681MNJ1MS |
|                             | 1000                   | 16×16.5             | 0.12  | 350   | 0.035                                  | 1800                                | UCD1V102MNJ1MS |
| 50<br>(1H)                  | 1                      | 4×5.8               | 0.10  | 3   | 2.70                                   | 60                                  | UCD1H010MCL1GS |
|                             | 2.2                    | 4×5.8               | 0.10  | 3   | 2.70                                   | 60                                  | UCD1H2R2MCL1GS |
|                             | 3.3                    | 4×5.8               | 0.10  | 3   | 2.70                                   | 60                                  | UCD1H3R3MCL1GS |

## UCD

### ■ Dimensions

| Rated Voltage (V)<br>(code) | Rated Capacitance (μF) | Case Size φD×L (mm) | tan δ | Leakage Current (μA)<br>(at 20°C after 2 minutes) | Impedance (Ω)<br>max.<br>(20°C/100kHz) | Rated Ripple (mArms)<br>(105°C/100kHz) | Part Number    |
|-----------------------------|------------------------|---------------------|-------|---|--|--|----------------|
| 50<br>(1H)                  | 4.7                    | 4×5.8               | 0.10  | 3   | 2.70                                   | 60                                     | UCD1H4R7MCL1GS |
|                             | 10                     | 5×5.8               | 0.10  | 5   | 1.50                                   | 90                                     | UCD1H100MCL6GS |
|                             | 10                     | 6.3×5.8             | 0.10  | 5   | 0.86                                   | 170                                    | UCD1H100MCL1GS |
|                             | 22                     | 6.3×5.8             | 0.10  | 11  | 0.86                                   | 170                                    | UCD1H220MCL1GS |
|                             | 33                     | 6.3×7.7             | 0.10  | 16.5  | 0.66                                   | 195                                    | UCD1H330MCL1GS |
|                             | 33                     | 8×6.2               | 0.10  | 16.5  | 0.63                                   | 200                                    | UCD1H330MCL6GS |
|                             | 47                     | 6.3×7.7             | 0.10  | 23.5  | 0.66                                   | 195                                    | UCD1H470MCL1GS |
|                             | 47                     | 8×6.2               | 0.10  | 23.5  | 0.63                                   | 200                                    | UCD1H470MCL6GS |
|                             | 100                    | 8×10                | 0.10  | 50  | 0.32                                   | 350                                    | UCD1H101MNL1GS |
|                             | 100                    | 10×7.7              | 0.10  | 50  | 0.36                                   | 330                                    | UCD1H101MCL6GS |
|                             | 150                    | 10×10               | 0.10  | 75  | 0.16                                   | 700                                    | UCD1H151MNL1GS |
|                             | 220                    | 10×10               | 0.10  | 110   | 0.16                                   | 700                                    | UCD1H221MNL1GS |
|                             | 330                    | 10×13.5             | 0.10  | 165   | 0.14                                   | 800                                    | UCD1H331MNL6GS |
|                             | 330                    | 12.5×13.5           | 0.10  | 165   | 0.12                                   | 900                                    | UCD1H331MNL1MS |
|                             | 390                    | 12.5×13.5           | 0.10  | 195   | 0.12                                   | 900                                    | UCD1H391MNL1MS |
| 470                         | 16×16.5                | 0.10                | 235   | 0.073   | 1610                                   | UCD1H471MNL1MS                         |                |
| 680                         | 16×16.5                | 0.10                | 340   | 0.073   | 1610                                   | UCD1H681MNL1MS                         |                |
| 63<br>(1J)                  | 4.7                    | 5×5.8               | 0.08  | 3   | 3.00                                   | 50                                     | UCD1J4R7MCL1GS |
|                             | 10                     | 6.3×5.8             | 0.08  | 6.3   | 1.50                                   | 80                                     | UCD1J100MCL1GS |
|                             | 22                     | 6.3×7.7             | 0.08  | 13.86   | 1.20                                   | 120                                    | UCD1J220MCL1GS |
|                             | 22                     | 8×6.2               | 0.08  | 13.86   | 1.20                                   | 120                                    | UCD1J220MCL6GS |
|                             | 33                     | 8×10                | 0.08  | 20.79   | 0.65                                   | 250                                    | UCD1J330MNL1GS |
|                             | 47                     | 8×10                | 0.08  | 29.61   | 0.65                                   | 250                                    | UCD1J470MNL1GS |
|                             | 68                     | 10×10               | 0.08  | 42.84   | 0.35                                   | 400                                    | UCD1J680MNL1GS |
|                             | 100                    | 10×10               | 0.08  | 63  | 0.35                                   | 400                                    | UCD1J101MNL1GS |
|                             | 150                    | 12.5×13.5           | 0.08  | 94.5  | 0.16                                   | 800                                    | UCD1J151MNL1MS |
|                             | 220                    | 12.5×13.5           | 0.08  | 138.6   | 0.16                                   | 800                                    | UCD1J221MNL1MS |
|                             | 470                    | 16×16.5             | 0.08  | 296.1   | 0.082                                  | 1410                                   | UCD1J471MNL1MS |
| 680                         | 18×16.5                | 0.08                | 428.4 | 0.080   | 1690                                   | UCD1J681MNL1MS                         |                |
| 80<br>(1K)                  | 3.3                    | 5×5.8               | 0.08  | 3   | 5.00                                   | 25                                     | UCD1K3R3MCL1GS |
|                             | 4.7                    | 6.3×5.8             | 0.08  | 3.76  | 3.00                                   | 40                                     | UCD1K4R7MCL1GS |
|                             | 10                     | 6.3×7.7             | 0.08  | 8   | 2.40                                   | 60                                     | UCD1K100MCL1GS |
|                             | 10                     | 8×6.2               | 0.08  | 8   | 2.40                                   | 60                                     | UCD1K100MCL6GS |
|                             | 22                     | 8×10                | 0.08  | 17.6  | 1.30                                   | 130                                    | UCD1K220MNL1GS |
|                             | 33                     | 8×10                | 0.08  | 26.4  | 1.30                                   | 130                                    | UCD1K330MNL1GS |
|                             | 47                     | 10×10               | 0.08  | 37.6  | 0.70                                   | 200                                    | UCD1K470MNL1GS |
|                             | 68                     | 12.5×13.5           | 0.08  | 54.4  | 0.32                                   | 500                                    | UCD1K680MNL1MS |
|                             | 100                    | 12.5×13.5           | 0.08  | 80  | 0.32                                   | 500                                    | UCD1K101MNL1MS |
|                             | 150                    | 12.5×13.5           | 0.08  | 120   | 0.32                                   | 500                                    | UCD1K151MNL1MS |
|                             | 330                    | 16×16.5             | 0.08  | 264   | 0.17                                   | 793                                    | UCD1K331MNL1MS |
| 470                         | 18×16.5                | 0.08                | 376   | 0.15  | 917                                    | UCD1K471MNL1MS                         |                |
| 100<br>(2A)                 | 22                     | 8×10                | 0.07  | 22  | 1.30                                   | 130                                    | UCD2A220MNL1GS |
|                             | 33                     | 10×10               | 0.07  | 33  | 0.70                                   | 200                                    | UCD2A330MNL1GS |
|                             | 47                     | 12.5×13.5           | 0.07  | 47  | 0.32                                   | 500                                    | UCD2A470MNL1MS |
|                             | 68                     | 12.5×13.5           | 0.07  | 68  | 0.32                                   | 500                                    | UCD2A680MNL1MS |
|                             | 100                    | 16×16.5             | 0.07  | 100   | 0.17                                   | 793                                    | UCD2A101MNL1MS |
|                             | 150                    | 16×16.5             | 0.07  | 150   | 0.17                                   | 793                                    | UCD2A151MNL1MS |
|                             | 220                    | 18×16.5             | 0.07  | 220   | 0.15                                   | 917                                    | UCD2A221MNL1MS |
| 330                         | 18×16.5                | 0.07                | 330   | 0.15  | 917                                    | UCD2A331MNL1MS                         |                |

• For taping specifications, recommended land size/soldering by reflow and minimum order quantity, please refer to the Guidelines for Aluminum Electrolytic Capacitors.

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