

# ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

# UCZ

Chip Type, High Reliability.  
Low temperature ESR specification.



For SMD

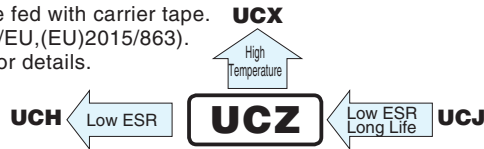


Long Life



Anti-Solvent Feature

- Chip type, high temperature range, for +125°C use.
- Added ESR specification after the test at -40°C.
- 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.

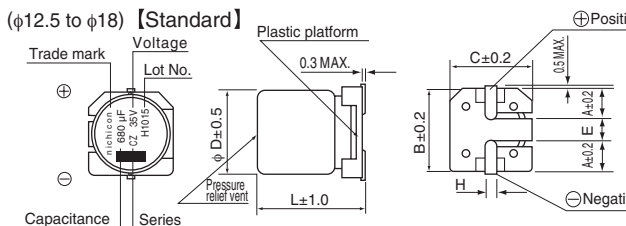
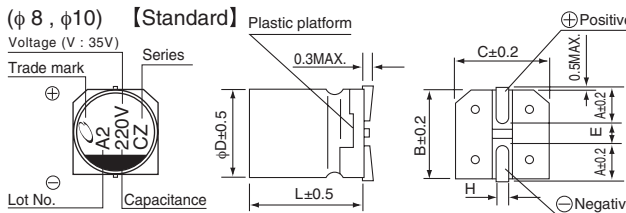
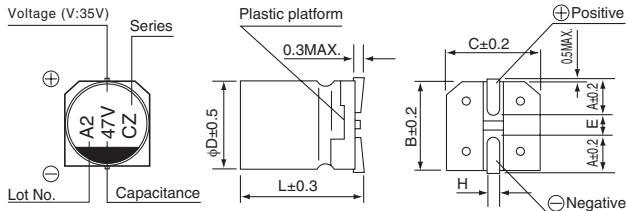


## Specifications

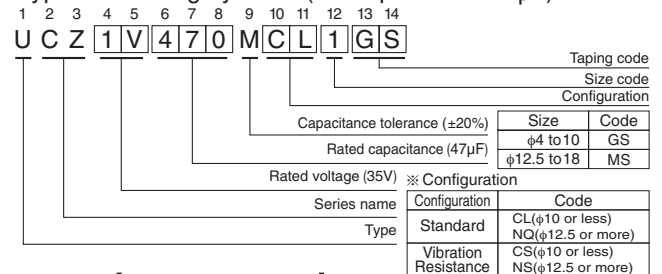
|                               |                                                                                                                                                                                                                                         |                                                   |             |             |                |                    |      |                                                   |      |                                       |                               |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-------------|-------------|----------------|--------------------|------|---------------------------------------------------|------|---------------------------------------|-------------------------------|
| Item                          | Performance Characteristics                                                                                                                                                                                                             |                                                   |             |             |                |                    |      |                                                   |      |                                       |                               |
| Category Temperature Range    | -40 to +125°C                                                                                                                                                                                                                           |                                                   |             |             |                |                    |      |                                                   |      |                                       |                               |
| Rated Voltage Range           | 10 to 100V                                                                                                                                                                                                                              |                                                   |             |             |                |                    |      |                                                   |      |                                       |                               |
| Rated Capacitance Range       | 10 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 0.01CV or 3μA, whichever is greater.                                                                                                            |                                                   |             |             |                |                    |      |                                                   |      |                                       |                               |
| Tangent of loss angle (tan δ) | Rated voltage (V)                                                                                                                                                                                                                       | 10                                                | 16          | 25          | 35             | 50                 | 63   | 80                                                | 100  | Measurement frequency : 120Hz at 20°C |                               |
|                               | tan δ (MAX.)                                                                                                                                                                                                                            | 0.30                                              | 0.23        | 0.18        | 0.16           | 0.16               | 0.12 | 0.12                                              | 0.10 |                                       |                               |
|                               | 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)                                                                                                                                                                                                                       |                                                   | 10          | 16          | 25             | 35                 | 50   | 63                                                | 80   | 100                                   | Measurement frequency : 120Hz |
|                               | Impedance ratio (MAX.)                                                                                                                                                                                                                  | Z-40°C / Z+20°C                                   | 12          | 8           | 6              | 4                  | 4    | 3                                                 | 3    | 3                                     |                               |
| Endurance                     | After continuous application of rated voltage at 125°C and then restoring down to 20°C, the readings of measurements shall meet below.                                                                                                  |                                                   |             |             |                |                    |      |                                                   |      |                                       |                               |
|                               | Case size                                                                                                                                                                                                                               | φ6.3 × 5.8L                                       | φ6.3 × 7.7L | φ8 to φ12.5 | φ16,18 × 16.5L | φ16,18 × 21.5L     |      |                                                   |      |                                       |                               |
|                               | Endurance time                                                                                                                                                                                                                          | 1000hrs.                                          | 2000hrs.    | 3000hrs.    | 3500hrs.       | 4000hrs.           |      |                                                   |      |                                       |                               |
|                               | Capacitance change                                                                                                                                                                                                                      | Within ±30% of the initial capacitance value      |             |             |                |                    |      |                                                   |      |                                       |                               |
|                               | tan δ                                                                                                                                                                                                                                   | 300% or less than the initial specified value     |             |             |                |                    |      |                                                   |      |                                       |                               |
|                               | Leakage current                                                                                                                                                                                                                         | Less than or equal to the initial specified value |             |             |                |                    |      |                                                   |      |                                       |                               |
|                               |                                                                                                                                                                                                                                         |                                                   |             |             |                |                    |      |                                                   |      |                                       |                               |
| Shelf Life                    | After storing the capacitors under no load at 125°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

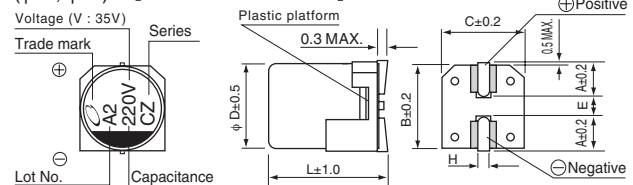
(φ 6.3) 【Standard】 ※ φ6.3 × 5.8L : The vibration structure-resistant product can't support.  
φ6.3 × 7.7L : The vibration structure-resistant product is available.



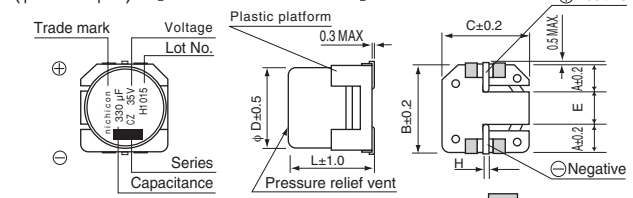
## Type numbering system (Example : 35V 47μF)



## (φ 8, φ10) 【Vibration Resistance】



## (φ12.5 to φ18) 【Vibration Resistance】



| Standard | (mm)       |            |            |            |            |               |               |  |
|----------|------------|------------|------------|------------|------------|---------------|---------------|--|
| φDxL     | 6.3X5.8    | 6.3X7.7    | 8X10       | 10X10      | 12.5X13.5  | 16X16.5, 21.5 | 18X16.5, 21.5 |  |
| A        | 2.4        | 2.4        | 2.9        | 3.2        | 4.8        | 5.4           | 6.4           |  |
| B        | 6.6        | 6.6        | 8.3        | 10.3       | 13.6       | 17.1          | 19.1          |  |
| C        | 6.6        | 6.6        | 8.3        | 10.3       | 13.6       | 17.1          | 19.1          |  |
| E        | 2.2        | 2.2        | 3.1        | 4.5        | 4.0        | 6.3           | 6.3           |  |
| L        | 5.8        | 7.7        | 10         | 10         | 13.5       | 16.5, 21.5    | 16.5, 21.5    |  |
| H        | 0.5 to 0.8 | 0.5 to 0.8 | 0.8 to 1.1 | 0.8 to 1.1 | 1.0 to 1.4 | 1.0 to 1.4    | 1.0 to 1.4    |  |

| Vibration Resistance | (mm)       |            |            |            |            |  |
|----------------------|------------|------------|------------|------------|------------|--|
| φDxL                 | 8X10       | 10X10      | φ12.5      | φ16        | φ18        |  |
| A                    | 2.9        | 3.2        | 4.8        | 5.4        | 6.4        |  |
| B                    | 8.3        | 10.3       | 13.6       | 17.1       | 19.1       |  |
| C                    | 8.3        | 10.3       | 13.6       | 17.1       | 19.1       |  |
| E                    | 3.1        | 4.5        | 4.0        | 6.3        | 6.3        |  |
| L                    | 10         | 10         | 13.5       | 16.5, 21.5 | 16.5, 21.5 |  |
| H                    | 1.1 to 1.5 | 1.1 to 1.5 | 1.0 to 1.4 | 1.0 to 1.4 | 1.0 to 1.4 |  |

| Voltage |    |    |    |    |    |    |    |     |
|---------|----|----|----|----|----|----|----|-----|
| V       | 10 | 16 | 25 | 35 | 50 | 63 | 80 | 100 |
| Code    | 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          |

●Dimension table in next page.

CAT.8100K

UCZ

## ■ Dimensions

| Rated Voltage<br>(V)<br>(code) | Rated Capacitance<br>(μF) | Case Size<br>φD×L (mm) | tan δ | Leakage Current<br>(μA)<br>(at 20°C after<br>2 minutes) | ESR (Ω) MAX.<br>(20°C/−40°C/100kHz) |                  |                                    | Rated Ripple<br>(mArms)<br>(125°C/100kHz) | Part Number    |
|--------------------------------|---------------------------|------------------------|-------|---------------------------------------------------------|-------------------------------------|------------------|------------------------------------|-------------------------------------------|----------------|
|                                |                           |                        |       |                                                         | Initial<br>20°C                     | Initial<br>−40°C | after<br>endurance test<br>−40°C ※ |                                           |                |
| 10<br>(1A)                     | 220                       | 8×10                   | 0.30  | 22                                                      | 0.20                                | 3.00             | 4.5                                | 270                                       | UCZ1A221M□□1GS |
|                                | 330                       | 8×10                   | 0.30  | 33                                                      | 0.20                                | 3.00             | 4.5                                | 270                                       | UCZ1A331M□□6GS |
|                                | 330                       | 10×10                  | 0.30  | 33                                                      | 0.15                                | 2.00             | 3.5                                | 500                                       | UCZ1A331M□□1GS |
|                                | 470                       | 10×10                  | 0.30  | 47                                                      | 0.15                                | 2.00             | 3.5                                | 500                                       | UCZ1A471M□□1GS |
| 16<br>(1C)                     | 47                        | 6.3×5.8                | 0.23  | 7.52                                                    | 1.60                                | 24.00            | —                                  | 69                                        | UCZ1C470MCL1GS |
|                                | 100                       | 6.3×7.7                | 0.23  | 16                                                      | 0.45                                | 5.00             | 40                                 | 197                                       | UCZ1C101M□□6GS |
|                                | 100                       | 8×10                   | 0.23  | 16                                                      | 0.20                                | 3.00             | 4.5                                | 270                                       | UCZ1C101M□□1GS |
|                                | 220                       | 8×10                   | 0.23  | 35.2                                                    | 0.20                                | 3.00             | 4.5                                | 270                                       | UCZ1C221M□□1GS |
|                                | 330                       | 10×10                  | 0.23  | 52.8                                                    | 0.15                                | 2.00             | 3.5                                | 500                                       | UCZ1C331M□□1GS |
|                                | 470                       | 10×10                  | 0.23  | 75.2                                                    | 0.15                                | 2.00             | 3.5                                | 500                                       | UCZ1C471M□□1GS |
| 25<br>(1E)                     | 33                        | 6.3×5.8                | 0.18  | 8.25                                                    | 1.60                                | 24.00            | —                                  | 69                                        | UCZ1E330MCL1GS |
|                                | 100                       | 6.3×7.7                | 0.18  | 25                                                      | 0.45                                | 5.00             | 40                                 | 197                                       | UCZ1E101M□□6GS |
|                                | 100                       | 8×10                   | 0.18  | 25                                                      | 0.20                                | 3.00             | 4.5                                | 270                                       | UCZ1E101M□□1GS |
|                                | 220                       | 8×10                   | 0.18  | 55                                                      | 0.20                                | 3.00             | 4.5                                | 270                                       | UCZ1E221M□□6GS |
|                                | 220                       | 10×10                  | 0.18  | 55                                                      | 0.15                                | 2.00             | 3.5                                | 500                                       | UCZ1E221M□□1GS |
|                                | 330                       | 10×10                  | 0.18  | 82.5                                                    | 0.15                                | 2.00             | 3.5                                | 500                                       | UCZ1E331M□□1GS |
|                                | 820                       | 12.5×13.5              | 0.18  | 205                                                     | 0.060                               | 0.40             | 3                                  | 1700                                      | UCZ1E821M□□1MS |
|                                | 1000                      | 12.5×13.5              | 0.18  | 250                                                     | 0.060                               | 0.40             | 3                                  | 1700                                      | UCZ1E102M□□1MS |
|                                | 1200                      | 16×16.5                | 0.18  | 300                                                     | 0.047                               | 0.28             | 1.4                                | 1700                                      | UCZ1E122M□□1MS |
|                                | 1600                      | 16×16.5                | 0.18  | 400                                                     | 0.047                               | 0.28             | 1.4                                | 2400                                      | UCZ1E162M□□1MS |
|                                | 2200                      | 18×16.5                | 0.20  | 550                                                     | 0.045                               | 0.23             | 1.3                                | 2600                                      | UCZ1E222M□□1MS |
|                                | 2700                      | 16×21.5                | 0.20  | 675                                                     | 0.034                               | 0.20             | 0.6                                | 3000                                      | UCZ1E272M□□1MS |
| 35<br>(1V)                     | 3300                      | 18×21.5                | 0.22  | 825                                                     | 0.032                               | 0.16             | 0.5                                | 3250                                      | UCZ1E332M□□1MS |
|                                | 10                        | 6.3×5.8                | 0.16  | 3.5                                                     | 1.60                                | 24.00            | —                                  | 69                                        | UCZ1V100MCL1GS |
|                                | 22                        | 6.3×5.8                | 0.16  | 7.7                                                     | 1.60                                | 24.00            | —                                  | 69                                        | UCZ1V220MCL1GS |
|                                | 33                        | 6.3×7.7                | 0.16  | 11.55                                                   | 0.45                                | 5.00             | 40                                 | 197                                       | UCZ1V330M□□1GS |
|                                | 47                        | 6.3×7.7                | 0.16  | 16.45                                                   | 0.45                                | 5.00             | 40                                 | 197                                       | UCZ1V470M□□6GS |
|                                | 47                        | 8×10                   | 0.16  | 16.45                                                   | 0.20                                | 3.00             | 4.5                                | 270                                       | UCZ1V470M□□1GS |
|                                | 68                        | 8×10                   | 0.16  | 23.8                                                    | 0.20                                | 3.00             | 4.5                                | 270                                       | UCZ1V680M□□1GS |
|                                | 100                       | 8×10                   | 0.16  | 35                                                      | 0.20                                | 3.00             | 4.5                                | 270                                       | UCZ1V101M□□1GS |
|                                | 220                       | 10×10                  | 0.16  | 77                                                      | 0.15                                | 2.00             | 3.5                                | 500                                       | UCZ1V221M□□1GS |
|                                | 470                       | 12.5×13.5              | 0.16  | 164.5                                                   | 0.060                               | 0.40             | 3.0                                | 1700                                      | UCZ1V471M□□1MS |
|                                | 560                       | 12.5×13.5              | 0.16  | 196                                                     | 0.060                               | 0.40             | 3.0                                | 1700                                      | UCZ1V561M□□1MS |
|                                | 680                       | 12.5×13.5              | 0.16  | 238                                                     | 0.060                               | 0.40             | 3.0                                | 1700                                      | UCZ1V681M□□1MS |
|                                | 820                       | 16×16.5                | 0.16  | 287                                                     | 0.047                               | 0.28             | 1.4                                | 2400                                      | UCZ1V821M□□1MS |
|                                | 1000                      | 16×16.5                | 0.16  | 350                                                     | 0.047                               | 0.28             | 1.4                                | 2400                                      | UCZ1V102M□□1MS |
|                                | 1200                      | 18×16.5                | 0.16  | 420                                                     | 0.045                               | 0.28             | 1.4                                | 2600                                      | UCZ1V122M□□1MS |
|                                | 1400                      | 18×16.5                | 0.16  | 490                                                     | 0.045                               | 0.28             | 1.4                                | 2600                                      | UCZ1V142M□□1MS |
|                                | 1600                      | 16×21.5                | 0.16  | 560                                                     | 0.034                               | 0.20             | 0.6                                | 3000                                      | UCZ1V162M□□1MS |
|                                | 2200                      | 18×21.5                | 0.18  | 770                                                     | 0.032                               | 0.16             | 0.5                                | 3250                                      | UCZ1V222M□□1MS |
| 50<br>(1H)                     | 10                        | 6.3×5.8                | 0.16  | 5                                                       | 2.80                                | 42.00            | —                                  | 51                                        | UCZ1H100MCL1GS |
|                                | 22                        | 6.3×7.7                | 0.16  | 11                                                      | 0.50                                | 5.00             | 40                                 | 197                                       | UCZ1H220M□□1GS |
|                                | 33                        | 6.3×7.7                | 0.16  | 16.5                                                    | 0.50                                | 5.00             | 40                                 | 197                                       | UCZ1H330M□□6GS |
|                                | 33                        | 8×10                   | 0.16  | 16.5                                                    | 0.25                                | 3.50             | 6                                  | 270                                       | UCZ1H330M□□1GS |
|                                | 47                        | 6.3×7.7                | 0.16  | 23.5                                                    | 0.50                                | 5.00             | 40                                 | 197                                       | UCZ1H470M□□6GS |
|                                | 47                        | 8×10                   | 0.16  | 23.5                                                    | 0.25                                | 3.50             | 6                                  | 270                                       | UCZ1H470M□□1GS |
|                                | 100                       | 10×10                  | 0.16  | 50                                                      | 0.20                                | 2.50             | 4.5                                | 500                                       | UCZ1H101M□□1GS |
|                                | 390                       | 12.5×13.5              | 0.16  | 195                                                     | 0.10                                | 0.44             | 4.0                                | 1300                                      | UCZ1H391M□□1MS |
|                                | 470                       | 16×16.5                | 0.16  | 235                                                     | 0.080                               | 0.34             | 2.6                                | 2000                                      | UCZ1H471M□□1MS |
|                                | 560                       | 16×16.5                | 0.16  | 280                                                     | 0.080                               | 0.34             | 2.6                                | 2000                                      | UCZ1H561M□□1MS |
|                                | 680                       | 18×16.5                | 0.16  | 340                                                     | 0.078                               | 0.32             | 2.6                                | 2100                                      | UCZ1H681M□□1MS |
|                                | 820                       | 18×16.5                | 0.16  | 410                                                     | 0.078                               | 0.32             | 2.6                                | 2100                                      | UCZ1H821M□□1MS |
|                                | 1000                      | 16×21.5                | 0.16  | 500                                                     | 0.040                               | 0.22             | 1.5                                | 2800                                      | UCZ1H102M□□1MS |
|                                | 1200                      | 18×21.5                | 0.16  | 600                                                     | 0.038                               | 0.20             | 1.5                                | 2900                                      | UCZ1H122M□□1MS |

□□ : Enter the appropriate configuration code.

UCZ

## ■ Dimensions

| Rated Voltage<br>(V)<br>(code) | Rated Capacitance<br>(μF) | Case Size<br>φD×L (mm) | tan δ | Leakage Current<br>(μA)<br>(at 20°C after<br>2 minutes) | ESR (Ω) MAX.<br>(20°C/−40°C/100kHz) |                  |                                    | Rated Ripple<br>(mA rms)<br>(125°C/100kHz) | Part Number    |
|--------------------------------|---------------------------|------------------------|-------|---------------------------------------------------------|-------------------------------------|------------------|------------------------------------|--------------------------------------------|----------------|
|                                |                           |                        |       |                                                         | Initial<br>20°C                     | Initial<br>−40°C | after<br>endurance test<br>−40°C ※ |                                            |                |
| 63<br>(1J)                     | 10                        | 6.3×7.7                | 0.12  | 6.3                                                     | 2.00                                | 100.00           | —                                  | 60                                         | UCZ1J100M□□1GS |
|                                | 22                        | 8×10                   | 0.12  | 13.86                                                   | 0.70                                | 35.00            | —                                  | 100                                        | UCZ1J220M□□1GS |
|                                | 33                        | 8×10                   | 0.12  | 20.79                                                   | 0.70                                | 35.00            | —                                  | 100                                        | UCZ1J330M□□6GS |
|                                | 33                        | 10×10                  | 0.12  | 20.79                                                   | 0.50                                | 25.00            | —                                  | 170                                        | UCZ1J330M□□1GS |
|                                | 47                        | 8×10                   | 0.12  | 29.61                                                   | 0.70                                | 35.00            | —                                  | 100                                        | UCZ1J470M□□6GS |
|                                | 47                        | 10×10                  | 0.12  | 29.61                                                   | 0.50                                | 25.00            | —                                  | 170                                        | UCZ1J470M□□1GS |
|                                | 150                       | 12.5×13.5              | 0.12  | 94.5                                                    | 0.20                                | 1.30             | 14                                 | 1000                                       | UCZ1J151M□□1MS |
|                                | 180                       | 12.5×13.5              | 0.12  | 113.4                                                   | 0.20                                | 1.30             | 14                                 | 1000                                       | UCZ1J181M□□1MS |
|                                | 220                       | 12.5×13.5              | 0.12  | 138.6                                                   | 0.20                                | 1.30             | 14                                 | 1000                                       | UCZ1J221M□□1MS |
|                                | 390                       | 16×16.5                | 0.12  | 245.7                                                   | 0.13                                | 0.90             | 4.8                                | 1900                                       | UCZ1J391M□□1MS |
|                                | 470                       | 18×16.5                | 0.12  | 296.1                                                   | 0.11                                | 0.82             | 3.9                                | 2000                                       | UCZ1J471M□□1MS |
|                                | 560                       | 16×21.5                | 0.12  | 352.8                                                   | 0.070                               | 0.46             | 2.0                                | 2500                                       | UCZ1J561M□□1MS |
|                                | 750                       | 18×21.5                | 0.12  | 472.5                                                   | 0.068                               | 0.44             | 1.8                                | 2600                                       | UCZ1J751M□□1MS |
| 80<br>(1K)                     | 10                        | 8×10                   | 0.12  | 8                                                       | 0.75                                | 50.00            | —                                  | 70                                         | UCZ1K100M□□1GS |
|                                | 22                        | 8×10                   | 0.12  | 17.6                                                    | 0.75                                | 50.00            | —                                  | 70                                         | UCZ1K220M□□6GS |
|                                | 22                        | 10×10                  | 0.12  | 17.6                                                    | 0.55                                | 35.00            | —                                  | 115                                        | UCZ1K220M□□1GS |
|                                | 33                        | 8×10                   | 0.12  | 26.4                                                    | 0.75                                | 50.00            | —                                  | 70                                         | UCZ1K330M□□6GS |
|                                | 33                        | 10×10                  | 0.12  | 26.4                                                    | 0.55                                | 35.00            | —                                  | 115                                        | UCZ1K330M□□1GS |
|                                | 47                        | 10×10                  | 0.12  | 37.6                                                    | 0.55                                | 35.00            | —                                  | 115                                        | UCZ1K470M□□1GS |
|                                | 150                       | 12.5×13.5              | 0.12  | 120                                                     | 0.28                                | 1.90             | 14                                 | 700                                        | UCZ1K151M□□1MS |
|                                | 270                       | 16×16.5                | 0.12  | 216                                                     | 0.19                                | 1.40             | 4.8                                | 1000                                       | UCZ1K271M□□1MS |
|                                | 330                       | 18×16.5                | 0.12  | 264                                                     | 0.17                                | 1.10             | 3.9                                | 1100                                       | UCZ1K331M□□1MS |
|                                | 390                       | 16×21.5                | 0.12  | 312                                                     | 0.12                                | 0.80             | 2.6                                | 1600                                       | UCZ1K391M□□1MS |
| 100<br>(2A)                    | 10                        | 8×10                   | 0.10  | 10                                                      | 0.75                                | 50.00            | —                                  | 70                                         | UCZ2A100M□□1GS |
|                                | 22                        | 8×10                   | 0.10  | 22                                                      | 0.75                                | 50.00            | —                                  | 70                                         | UCZ2A220M□□6GS |
|                                | 22                        | 10×10                  | 0.10  | 22                                                      | 0.55                                | 35.00            | —                                  | 115                                        | UCZ2A220M□□1GS |
|                                | 33                        | 10×10                  | 0.10  | 33                                                      | 0.55                                | 35.00            | —                                  | 115                                        | UCZ2A330M□□1GS |
|                                | 82                        | 12.5×13.5              | 0.10  | 82                                                      | 0.28                                | 1.90             | 22                                 | 700                                        | UCZ2A820M□□1MS |
|                                | 150                       | 16×16.5                | 0.10  | 150                                                     | 0.19                                | 1.40             | 4.8                                | 1000                                       | UCZ2A151M□□1MS |
|                                | 180                       | 18×16.5                | 0.10  | 180                                                     | 0.17                                | 1.10             | 3.9                                | 1100                                       | UCZ2A181M□□1MS |
|                                | 220                       | 16×21.5                | 0.10  | 220                                                     | 0.12                                | 0.80             | 2.6                                | 1600                                       | UCZ2A221M□□1MS |
|                                | 300                       | 18×21.5                | 0.10  | 300                                                     | 0.11                                | 0.70             | 2.4                                | 1700                                       | UCZ2A301M□□1MS |

□□ : Enter the appropriate configuration code.

※ Guaranteed time of ESR after endurance test

| Size                  | Guaranteed time    |
|-----------------------|--------------------|
| φ6.3 × 5.8L           | —                  |
| φ6.3 × 7.7L, φ8 × 10L | 10 to 50V 2000hrs. |
| φ10 × 10L             | 63 to 100V —       |
| φ12.5                 | 2000hrs.           |
| φ16, 18 × 16.5L       | 2000hrs.           |
| φ16, 18 × 21.5L       | 3000hrs.           |

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