

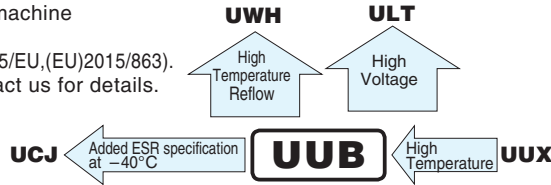
ALUMINUM ELECTROLYTIC CAPACITORS

UUB

Chip Type, High Reliability



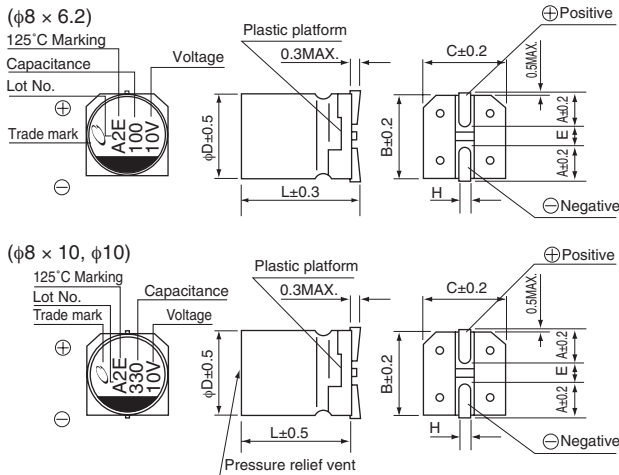
- Chip type, high temperature range, for +125°C use.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).
- AEC-Q200 compliant. Please contact us for details.



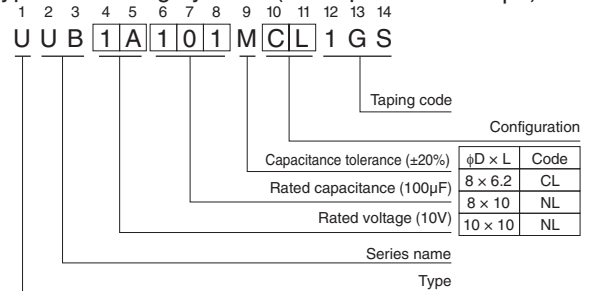
Specifications

| Item | Performance Characteristics | | | | | | | | | | |
|-------------------------------|---|---|--------------------|---|----|----|-----|-----|-----|-----|----|
| Category Temperature Range | -40 to +125°C | | | | | | | | | | |
| Rated Voltage Range | 10 to 400V | | | | | | | | | | |
| Rated Capacitance Range | 1 to 330μF | | | | | | | | | | |
| Capacitance Tolerance | ±20% at 120Hz, 20°C | | | | | | | | | | |
| Leakage Current | Rated voltage (V) | 10 to 50 | | | | | | | | | |
| | Leakage Current | After 1 minute's application of rated voltage at 20°C, leakage current is not more than 0.03CV (μA). I = 0.04CV+100 (μA) max.(1 minute's at 20°C) | | | | | | | | | |
| Tangent of loss angle (tan δ) | Measurement frequency : 120Hz at 20°C | | | | | | | | | | |
| | Rated voltage (V) | 10 | 16 | 25 | 35 | 50 | 160 | 200 | 250 | 400 | |
| Stability at Low Temperature | Measurement frequency : 120Hz | | | | | | | | | | |
| | Rated voltage (V) | 10 | 16 | 25 | 35 | 50 | 160 | 200 | 250 | 400 | |
| Endurance | Impedance ratio ZT / Z20 (MAX.) | Z-40°C / Z+20°C | 12 | 8 | 6 | 4 | 4 | 8 | 8 | 8 | 12 |
| | The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 2000 hours (1000 hours for φ8 × 6.2) at 125°C. | | Capacitance change | Within ±30% of the initial capacitance 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. | | tan δ | 300% or less than the initial specified value | | | | | | | |
| | 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. | | Leakage current | Less than or equal to the initial specified value | | | | | | | |
| 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 | | | | | | | |
| | Black print on the case top. | | tan δ | Less than or equal to the initial specified value | | | | | | | |
| Marking | Black print on the case top. | | Leakage current | Less than or equal to the initial specified value | | | | | | | |

Chip Type



Type numbering system (Example : 10V 100μF)



| φD × L (mm) | 8 × 6.2 | 8 × 10 | 10 × 10 |
|-------------|------------|------------|------------|
| A | 3.3 | 2.9 | 3.2 |
| B | 8.3 | 8.3 | 10.3 |
| C | 8.3 | 8.3 | 10.3 |
| E | 2.3 | 3.1 | 4.5 |
| L | 6.2 | 10 | 10 |
| H | 0.5 to 0.8 | 0.8 to 1.1 | 0.8 to 1.1 |

Dimensions

| Cap.(μF) | Code | 10V | | 16V | | 25V | | 35V | | 50V | |
|----------|------|---------|-----|---------|-----|---------|-----|---------|----|-----------------------|--------------|
| | | 1A | 1C | 1E | 1V | 1H | | | | | |
| 10 | 200 | | | | | | | | | 8 × 6.2 | 24 |
| 22 | 120 | | | | | | | | | 8 × 6.2 | 38 |
| 33 | 330 | | | | | | | | | 8 × 10 | 46 |
| 47 | 470 | | | | | | | | | 10 × 10 | 58 |
| 100 | 101 | 8 × 6.2 | 58 | 8 × 10 | 66 | 8 × 10 | 74 | 10 × 10 | 80 | | |
| 220 | 221 | 8 × 10 | 90 | 10 × 10 | 102 | 10 × 10 | 116 | | | | |
| 330 | 331 | 10 × 10 | 112 | | | | | | | Case size φD × L (mm) | Rated ripple |

| Cap.(μF) | Code | 160V | | 200V | | 250V | | 400V | |
|----------|------|---------|----|---------|----|---------|----|-----------------------|--------------|
| | | 2C | 2D | 2E | 2G | | | | |
| 1 | 010 | | | | | 8 × 10 | 26 | | |
| 1.8 | 1R8 | | | | | 8 × 10 | 27 | | |
| 2.2 | 2R2 | | | | | 10 × 10 | 36 | | |
| 3.3 | 3R3 | | | | | 10 × 10 | 38 | | |
| 4.7 | 4R7 | | | | | | | | |
| 6.8 | 6R8 | 8 × 10 | 42 | 10 × 10 | 59 | | | | |
| 10 | 100 | 10 × 10 | 59 | 10 × 10 | 59 | | | Case size φD × L (mm) | Rated ripple |

Rated ripple current (mA rms) at 125°C 120Hz

Frequency coefficient of rated ripple current

| Frequency | 50 Hz | 120 Hz | 300 Hz | 1 kHz | 10 kHz or more |
|-------------|-------|--------|--------|-------|----------------|
| Coefficient | 0.70 | 1.00 | 1.17 | 1.36 | 1.50 |

- Taping specifications are given in page 23.
- Recommended land size, soldering by reflow are given in page 18, 19.
- Please refer to page 3 for the minimum order quantity.

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