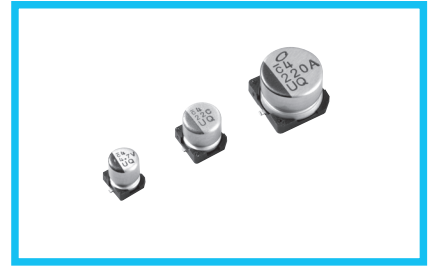


ALUMINUM ELECTROLYTIC CAPACITORS



Chip Type, For Audio Equipment
Wide Temperature Range



- Chip type acoustic series within the wide temperature range.
- 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.

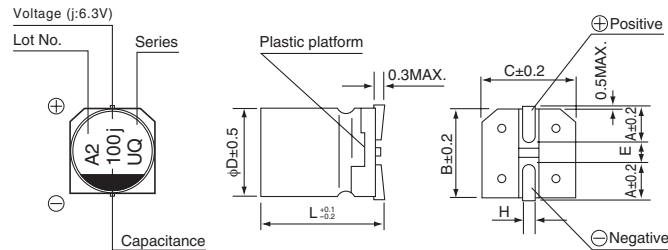


Specifications

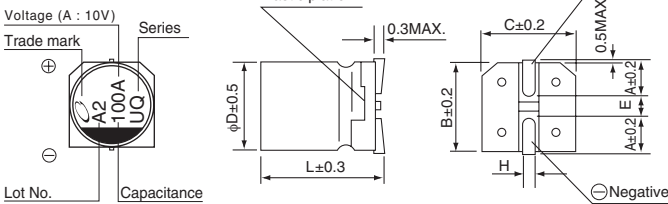
| Item | Performance Characteristics | | | | | | | |
|-------------------------------|---|-----------------|----|----|----|----|--------------------|---|
| Category Temperature Range | -40 to +105°C | | | | | | | |
| Rated Voltage Range | 6.3 to 50V | | | | | | | |
| Rated Capacitance Range | 1 to 1000μF | | | | | | | |
| Capacitance Tolerance | ±20% (120Hz, 20°C) | | | | | | | |
| Leakage Current | After 1 minute's application of rated voltage at 20°C, leakage current is not more than 0.03 CV or 4 (μA), whichever is greater. | | | | | | | |
| Tangent of loss angle (tan δ) | Measurement frequency : 120Hz at 20°C | | | | | | | |
| | Rated voltage (V) | 6.3 | 10 | 16 | 25 | 35 | 50 | |
| Stability at Low Temperature | Measurement frequency : 120Hz | | | | | | | |
| | Impedance ratio (MAX.) | Z-25°C / Z+20°C | 4 | 3 | 2 | 2 | 2 | 2 |
| | | Z-40°C / Z+20°C | 8 | 5 | 4 | 3 | 3 | 3 |
| Endurance | The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 1000 hours at 105°C. | | | | | | Capacitance change | Within ±20% of the initial capacitance value |
| | | | | | | | tan δ | 200% or less than 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. | | | | | | 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 |
| | | | | | | | 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

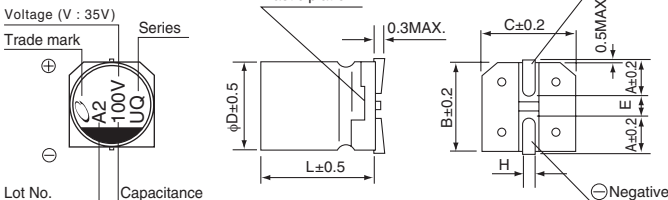
(φ4 to φ6.3)



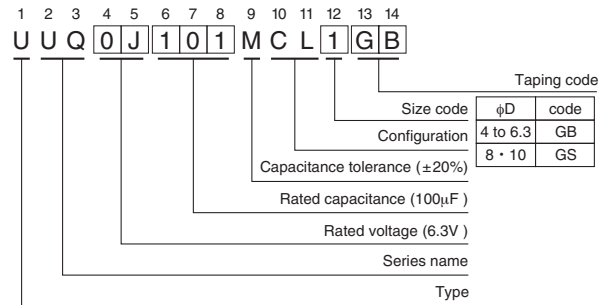
(φ8 × 6.2L)



(φ8 × 10L, φ10)



Type numbering system (Example : 6.3V 100μF)



| φD × L | 4 × 5.4 | 5 × 5.4 | 6.3 × 5.4 | 8 × 6.2 | 8 × 10 | 10 × 10 |
|--------|------------|------------|------------|------------|------------|------------|
| A | 1.8 | 2.1 | 2.4 | 3.3 | 2.9 | 3.2 |
| B | 4.3 | 5.3 | 6.6 | 8.3 | 8.3 | 10.3 |
| C | 4.3 | 5.3 | 6.6 | 8.3 | 8.3 | 10.3 |
| E | 1.0 | 1.3 | 2.2 | 2.3 | 3.1 | 4.5 |
| L | 5.4 | 5.4 | 5.4 | 6.2 | 10 | 10 |
| H | 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 |

Voltage

| V | 6.3 | 10 | 16 | 25 | 35 | 50 |
|------|-----|----|----|----|----|----|
| Code | j | A | C | E | V | H |

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 |

● Dimension table in next page.

UUQ

■ Dimensions

| Rated Voltage (V) (code) | Rated Capacitance (μF) | Case Size φD×L (mm) | tan δ | Leakage Current (μA) (at 20°C after 1 minute) | Rated Ripple (mArms) (105°C/120Hz) | Part Number |
|--------------------------|------------------------|---------------------|-------|---|------------------------------------|----------------|
| 6.3 (0J) | 22 | 4×5.4 | 0.30 | 4.158 | 22 | UUQ0J220MCL1GB |
| | 33 | 5×5.4 | 0.30 | 6.237 | 30 | UUQ0J330MCL1GB |
| | 47 | 5×5.4 | 0.30 | 8.883 | 36 | UUQ0J470MCL1GB |
| | 100 | 6.3×5.4 | 0.30 | 18.9 | 60 | UUQ0J101MCL1GB |
| | 220 | 8×6.2 | 0.30 | 41.58 | 102 | UUQ0J221MCL1GS |
| | 220 | 8×10 | 0.30 | 41.58 | 210 | UUQ0J221MCL6GS |
| | 330 | 8×6.2 | 0.30 | 62.37 | 102 | UUQ0J331MCL1GS |
| | 330 | 8×10 | 0.30 | 62.37 | 210 | UUQ0J331MCL6GS |
| | 470 | 8×10 | 0.30 | 88.83 | 210 | UUQ0J471MCL1GS |
| | 470 | 10×10 | 0.30 | 88.83 | 310 | UUQ0J471MCL6GS |
| | 1000 | 10×10 | 0.30 | 189 | 310 | UUQ0J102MCL1GS |
| 10 (1A) | 10 | 4×5.4 | 0.26 | 4 | 22 | UUQ1A100MCL1GB |
| | 22 | 5×5.4 | 0.26 | 6.6 | 27 | UUQ1A220MCL1GB |
| | 33 | 5×5.4 | 0.26 | 9.9 | 35 | UUQ1A330MCL1GB |
| | 47 | 6.3×5.4 | 0.26 | 14.1 | 46 | UUQ1A470MCL1GB |
| | 100 | 6.3×5.4 | 0.26 | 30 | 60 | UUQ1A101MCL1GB |
| | 100 | 8×6.2 | 0.26 | 30 | 90 | UUQ1A101MCL6GS |
| | 220 | 8×6.2 | 0.26 | 66 | 102 | UUQ1A221MCL1GS |
| | 220 | 8×10 | 0.26 | 66 | 210 | UUQ1A221MCL6GS |
| | 330 | 8×10 | 0.26 | 99 | 210 | UUQ1A331MCL1GS |
| | 330 | 10×10 | 0.26 | 99 | 310 | UUQ1A331MCL6GS |
| | 470 | 8×10 | 0.26 | 141 | 210 | UUQ1A471MCL1GS |
| 470 | 10×10 | 0.26 | 141 | 310 | UUQ1A471MCL6GS | |
| 16 (1C) | 10 | 4×5.4 | 0.22 | 4.8 | 18 | UUQ1C100MCL1GB |
| | 22 | 5×5.4 | 0.22 | 10.56 | 30 | UUQ1C220MCL1GB |
| | 33 | 6.3×5.4 | 0.22 | 15.84 | 40 | UUQ1C330MCL1GB |
| | 47 | 6.3×5.4 | 0.22 | 22.56 | 50 | UUQ1C470MCL1GB |
| | 100 | 8×6.2 | 0.22 | 48 | 102 | UUQ1C101MCL1GS |
| | 100 | 8×10 | 0.22 | 48 | 210 | UUQ1C101MCL6GS |
| | 220 | 8×10 | 0.22 | 105.6 | 210 | UUQ1C221MCL1GS |
| | 220 | 10×10 | 0.22 | 105.6 | 310 | UUQ1C221MCL6GS |
| | 330 | 8×10 | 0.22 | 158.4 | 210 | UUQ1C331MCL1GS |
| | 330 | 10×10 | 0.22 | 158.4 | 310 | UUQ1C331MCL6GS |
| | 470 | 8×10 | 0.22 | 225.6 | 210 | UUQ1C471MCL1GS |
| 470 | 10×10 | 0.22 | 225.6 | 310 | UUQ1C471MCL6GS | |
| 25 (1E) | 4.7 | 4×5.4 | 0.16 | 4 | 13 | UUQ1E4R7MCL1GB |
| | 10 | 5×5.4 | 0.16 | 7.5 | 23 | UUQ1E100MCL1GB |
| | 22 | 6.3×5.4 | 0.16 | 16.5 | 38 | UUQ1E220MCL1GB |
| | 33 | 6.3×5.4 | 0.16 | 24.75 | 48 | UUQ1E330MCL1GB |
| | 47 | 8×6.2 | 0.16 | 35.25 | 66 | UUQ1E470MCL1GS |
| | 100 | 8×10 | 0.16 | 75 | 155 | UUQ1E101MCL1GS |
| | 220 | 10×10 | 0.16 | 165 | 300 | UUQ1E221MCL1GS |



■ Dimensions

| Rated Voltage (V) (code) | Rated Capacitance (μF) | Case Size φD×L (mm) | tan δ | Leakage Current (μA) (at 20°C after 1 minute) | Rated Ripple (mArms) (105°C/120Hz) | Part Number |
|-----------------------------|------------------------|------------------------|-------|--|---------------------------------------|----------------|
| 35 (1V) | 4.7 | 4×5.4 | 0.13 | 4.935 | 15 | UUQ1V4R7MCL1GB |
| | 10 | 5×5.4 | 0.13 | 10.5 | 25 | UUQ1V100MCL1GB |
| | 22 | 6.3×5.4 | 0.13 | 23.1 | 42 | UUQ1V220MCL1GB |
| | 33 | 8×6.2 | 0.13 | 34.65 | 59 | UUQ1V330MCL1GS |
| | 47 | 8×10 | 0.13 | 49.35 | 155 | UUQ1V470MCL1GS |
| | 100 | 10×10 | 0.13 | 105 | 300 | UUQ1V101MCL1GS |
| | 220 | 10×10 | 0.13 | 231 | 300 | UUQ1V221MCL1GS |
| 50 (1H) | 1 | 4×5.4 | 0.12 | 4 | 6.2 | UUQ1H010MCL1GB |
| | 2.2 | 4×5.4 | 0.12 | 4 | 11 | UUQ1H2R2MCL1GB |
| | 3.3 | 4×5.4 | 0.12 | 4.95 | 14 | UUQ1H3R3MCL1GB |
| | 4.7 | 5×5.4 | 0.12 | 7.05 | 19 | UUQ1H4R7MCL1GB |
| | 10 | 6.3×5.4 | 0.12 | 15 | 30 | UUQ1H100MCL1GB |
| | 22 | 8×6.2 | 0.12 | 33 | 51 | UUQ1H220MCL1GS |
| | 33 | 8×10 | 0.12 | 49.5 | 140 | UUQ1H330MCL1GS |
| | 47 | 8×10 | 0.12 | 70.5 | 180 | UUQ1H470MCL1GS |
| | 100 | 10×10 | 0.12 | 150 | 220 | UUQ1H101MCL1GS |

- Taping specifications are given in page 20.
- Recommended land size, soldering by reflow are given in page 16, 17.
- Please refer to page 3 for the minimum order quantity.

Mouser Electronics

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