

• Applicable to automatic mounting machine fed with carrier tape.

• Compliant to the RoHS directive (2002/95/EC).

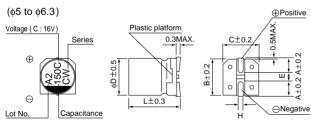


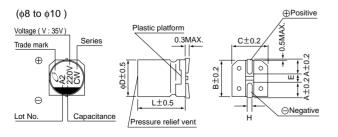


■ Specifications

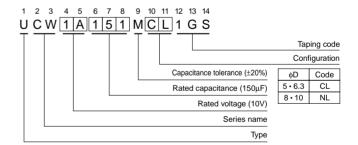
| Item | | | | Pe | rformance | Chara | cteristics | | | | |
|--|--|-------------|------|------|---|---------|--|---|---|--|--|
| Category Temperature Range | -25 to +105°C | | | | | | | | | | |
| Rated Voltage Range | 6.3 to 50V | | | | | | | | | | |
| Rated Capacitance Range | 10 to 470μF | | | | | | | | | | |
| Capacitance Tolerance | ±20% at 120Hz, 20°C | | | | | | | | | | |
| Leakage Current | After 2 minutes' application of rated voltage, leakage current is not more than 0.01 CV or 3 (µA), whichever is greater. | | | | | | | | | | |
| | | | | | Measurem | ent fre | quency : 12 | 20Hz at 20°C | | | |
| Tangent of loss angle (tan δ) | Rated voltage (V) | 6.3 | 10 | 16 | 25 | | 35 | 50 | | | |
| | tan δ (MAX.) | 0.32 | 0.28 | 0.26 | 0.16 | | 0.14 0.14 | | | | |
| | Measurement frequency: 120Hz | | | | | | | | | | |
| Out illing and a second and | Rated voltage (| 6.3 | 10 | 16 | 25 | 35 | 50 | | | | |
| Stability at Low Temperature | Impedance ratio ZT / Z20 (MAX.) | °C / Z+20°C | 4 | 3 | 2 | 2 | 2 | 2 | | | |
| | The specifications listed at right shall be met Canacitance change Within ±20% of the initial canacitance value | | | | | | | | | | |
| | when the capacitors are | | | | citance cha | ange | Within ±30% of the initial capacitance value | | | | |
| Endurance | after the rated voltage is | tan δ | | | 300% or less than the initial specified value | | | | | | |
| | hours at 105°C. Leakage current Less than or equal to the initial specified value | | | | | | | | | | |
| Shelf Life | After storing the capacito clause 4.1 at 20°C, they | | | | | | | | ge treatment based on JIS C 5101-4 ed above. | | |
| | The capacitors are kept of | | | | which is | | Canacita | ance change | Within ±10% of the initial capacitance value | | |
| Resistance to soldering | maintained at 250°C. The capacitors shall meet the | | | | | | | oo onange | Less than or equal to the initial specified value | | |
| heat 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 control of the contr | | | | | | | | Less than or equal to the initial specified value | | | |
| Marking | Black print on the case to | op. | | | | | | | | | |

■Chip Type





Type numbering system (Example: 10V 150µF)



| | | | | | (mm) |
|------|------------|------------|------------|------------|------------|
| φD×L | 5×7 | 6.3×7 | 6.3 × 8.7 | 8 × 10 | 10×10 |
| Α | 2.1 | 2.4 | 2.4 | 2.9 | 3.2 |
| В | 5.3 | 6.6 | 6.6 | 8.3 | 10.3 |
| С | 5.3 | 6.6 | 6.6 | 8.3 | 10.3 |
| E | 1.3 | 2.2 | 2.2 | 3.1 | 4.5 |
| L | 7.0 | 7.0 | 8.7 | 10 | 10 |
| Н | 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 |



■ Dimensions

| | V | 6.3 | | 10 | | 16 | | | 25 | | | 35 | | | 50 | | | | |
|-----------|-----|---------|------|-----|-------|--------|--------|---------|------|-----|---------|------|-----|---------|------|-----|-----------|-----------|--------|
| Cap. Code | | 0J | | | 1A | | | 1C | | | 1E | | | 1V | | | 1H | | |
| 10 | 100 | | | | | | | | | | | | | 5×7 | 2.2 | 95 | | | |
| 22 | 220 | | | | | | | 5×7 | 2.2 | 95 | 5×7 | 2.2 | 95 | 5×7 | 2.2 | 95 | | | |
| 33 | 330 | | | | 5×7 | 2.2 | 95 | | | | 6.3×7 | 1.1 | 140 | 6.3×8.7 | 1.0 | 230 | | | |
| 47 | 470 | 5×7 | 2.2 | 95 | | | | 6.3×7 | 1.1 | 140 | 6.3×7 | 1.1 | 140 | 6.3×8.7 | 1.0 | 230 | 8×10 | 0.53 | 350 |
| 100 | 101 | 6.3×7 | 1.1 | 140 | | | | 6.3×7 | 1.1 | 140 | 6.3×8.7 | 1.0 | 230 | | | | 8×10 | 0.53 | 350 |
| 150 | 151 | | į | | 6.3×7 | 1.1 | 140 | 6.3×8.7 | 1.0 | 230 | | | | | | | | | |
| 220 | 221 | 6.3×8.7 | 1.0 | 230 | | | | 6.3×8.7 | 1.0 | 230 | 8×10 | 0.22 | 600 | 8×10 | 0.22 | 600 | 10×10 | 0.35 | 670 |
| 330 | 331 | 6.3×8.7 | 1.0 | 230 | | l I | i i | 8×10 | 0.22 | 600 | 8×10 | 0.22 | 600 | 10×10 | 0.16 | 850 | Case size | Impedance | Rated |
| 470 | 471 | 8×10 | 0.22 | 600 | | | | 8×10 | 0.22 | 600 | 10×10 | 0.16 | 850 | | | | φD×L (mm) | Impedance | ripple |

Max. impedance (Ω) at 20°C 100kHz, Rated ripple current (mArms) at 105°C 100kHz

• Frequency coefficient of rated ripple current

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

- 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.

Mouser Electronics

Authorized Distributor

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Nichicon:

UCW1V100MCL1GS UCW1E221MNL1GS UCW1E330MCL1GS UCW1E331MNL1GS UCW1E470MCL1GS
UCW1E471MNL1GS UCW1H101MNL1GS UCW1H470MNL1GS UCW1C471MNL1GS UCW1V220MCL1GS
UCW1V221MNL1GS UCW1V330MCL1GS UCW1V331MNL1GS UCW1V470MCL1GS UCW1H221MNL1GS
UCW1A330MCL1GS UCW0J101MCL1GS UCW0J221MCL1GS UCW0J331MCL1GS UCW0J470MNL1GS
UCW1E220MCL1GS UCW1A151MCL1GS UCW1E101MCL1GS UCW1C101MCL1GS UCW1C151MCL1GS
UCW1C220MCL1GS UCW1C221MCL1GS UCW1C331MNL1GS UCW1C470MCL1GS UCW0J470MCL1GS
UCW0J471MNL1GS