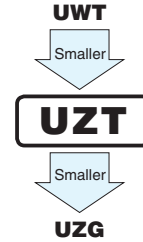


## UZT 4.5mmL Chip Type, Wide Temperature Range

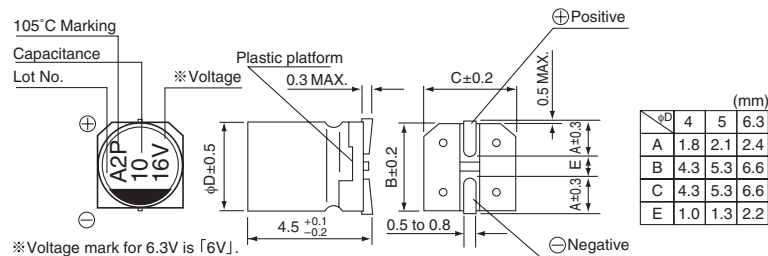


- Chip type with 4.5mm height, operating over wide temperature range of -40 to +105°C.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU, (EU)2015/863).
- AEC-Q200 compliant. Please contact us for details.

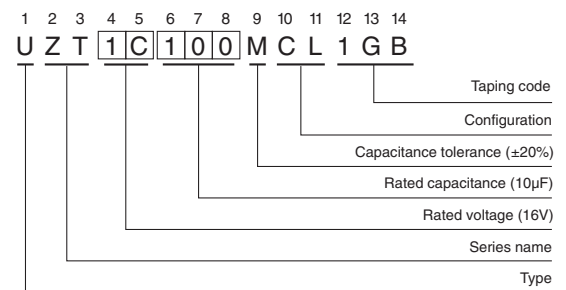
### Specifications

| Item                          | Performance Characteristics   |  |    |    |    |    |    |
|-------------------------------|---|--|----|----|----|----|----|
| Category Temperature Range    | -40 to +105°C   |  |    |    |    |    |    |
| Rated Voltage Range           | 6.3 to 50V  |  |    |    |    |    |    |
| Rated Capacitance Range       | 1 to 100μF  |  |    |    |    |    |    |
| 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 3 (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   |  |    |    |    |    |    |
|                               | Rated voltage (V)   | 6.3  | 10 | 16 | 25 | 35 | 50 |
|                               | Impedance ratio Z <sub>-25°C</sub> / Z <sub>+20°C</sub>   | 6  | 5  | 3  | 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 ±25% of the initial capacitance value (16V or less)<br>Within ±20% of the initial capacitance value (25V or more) |    |    |    |    |    |
|                               | tan δ   | 300% or less than 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. |  |    |    |    |    |    |
|                               | 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   |    |    |    |    |    |
| 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.               |  |    |    |    |    |    |
|                               | 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



### Type numbering system (Example : 16V 10μF)



### 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.

## UZZ

## ■Dimensions

| Rated Voltage (V) (code) | Rated Capacitance (μF) | Case Size φD×L (mm) | tan δ | Leakage Current (μA) (at 20°C after 2 minutes) | Rated Ripple (mArms) (105°C/120Hz) | Part Number    |
|--------------------------|------------------------|---------------------|-------|--|------------------------------------|----------------|
| 6.3 (0J)                 | 22                     | 4×4.5               | 0.38  | 3  | 19                                 | UZZ0J220MCL1GB |
|                          | 33                     | 5×4.5               | 0.38  | 3  | 26                                 | UZZ0J330MCL1GB |
|                          | 47                     | 5×4.5               | 0.38  | 3  | 32                                 | UZZ0J470MCL1GB |
|                          | 100                    | 6.3×4.5             | 0.38  | 6.3  | 52                                 | UZZ0J101MCL1GB |
| 10 (1A)                  | 22                     | 5×4.5               | 0.32  | 3  | 24                                 | UZZ1A220MCL1GB |
|                          | 33                     | 5×4.5               | 0.32  | 3.3  | 30                                 | UZZ1A330MCL1GB |
|                          | 47                     | 6.3×4.5             | 0.32  | 4.7  | 40                                 | UZZ1A470MCL1GB |
| 16 (1C)                  | 10                     | 4×4.5               | 0.20  | 3  | 16                                 | UZZ1C100MCL1GB |
|                          | 22                     | 5×4.5               | 0.20  | 3.52   | 26                                 | UZZ1C220MCL1GB |
|                          | 33                     | 6.3×4.5             | 0.20  | 5.28   | 35                                 | UZZ1C330MCL1GB |
|                          | 47                     | 6.3×4.5             | 0.20  | 7.52   | 44                                 | UZZ1C470MCL1GB |
| 25 (1E)                  | 4.7                    | 4×4.5               | 0.16  | 3  | 11                                 | UZZ1E4R7MCL1GB |
|                          | 10                     | 5×4.5               | 0.16  | 3  | 20                                 | UZZ1E100MCL1GB |
|                          | 22                     | 6.3×4.5             | 0.16  | 5.5  | 33                                 | UZZ1E220MCL1GB |
|                          | 33                     | 6.3×4.5             | 0.16  | 8.25   | 42                                 | UZZ1E330MCL1GB |
| 35 (1V)                  | 4.7                    | 4×4.5               | 0.14  | 3  | 13                                 | UZZ1V4R7MCL1GB |
|                          | 10                     | 5×4.5               | 0.14  | 3.5  | 22                                 | UZZ1V100MCL1GB |
|                          | 22                     | 6.3×4.5             | 0.14  | 7.7  | 36                                 | UZZ1V220MCL1GB |
| 50 (1H)                  | 1                      | 4×4.5               | 0.14  | 3  | 5.4                                | UZZ1H010MCL1GB |
|                          | 2.2                    | 4×4.5               | 0.14  | 3  | 9.6                                | UZZ1H2R2MCL1GB |
|                          | 3.3                    | 4×4.5               | 0.14  | 3  | 12                                 | UZZ1H3R3MCL1GB |
|                          | 4.7                    | 5×4.5               | 0.14  | 3  | 16                                 | UZZ1H4R7MCL1GB |
|                          | 10                     | 6.3×4.5             | 0.14  | 5  | 26                                 | UZZ1H100MCL1GB |

- For taping specifications, recommended land size/soldering by reflow and minimum order quantity, please refer to the Guidelines for Aluminum Electrolytic Capacitors.
- Please select UUX, UUU series if high C/V products are required.

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