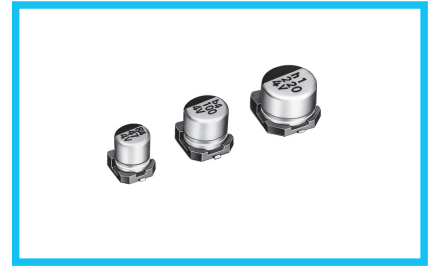
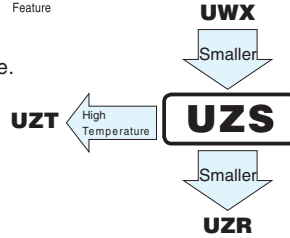


UZS 4.5mmL Chip Type



- Chip type with 4.5mm height.
- 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.

Products which are scheduled to be discontinued.
Not recommended for new designs.

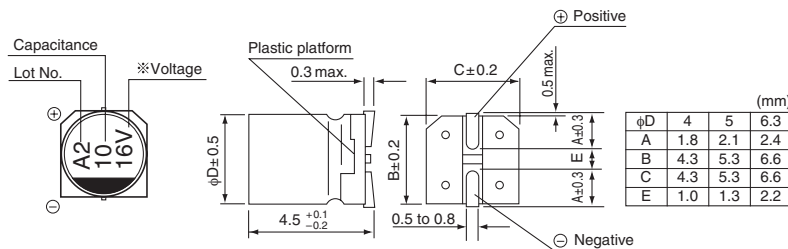


Specifications

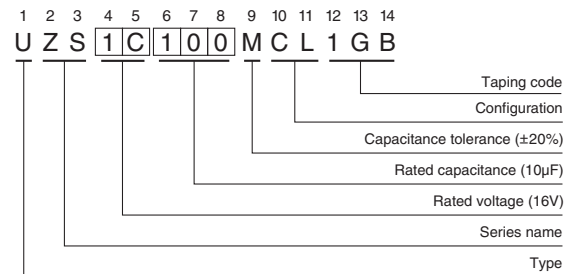
| Item | Performance Characteristics | | | | | | | |
|-------------------------------|--|---------------------|--------------------|----|---|----|----|----|
| Category Temperature Range | -40 to + 85°C | | | | | | | |
| Rated Voltage Range | 4 to 50V | | | | | | | |
| Rated Capacitance Range | 1 to 220μF | | | | | | | |
| 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 0.01 CV or 3 (μA) , whichever is greater. | | | | | | | |
| Tangent of loss angle (tan δ) | Measurement frequency : 120Hz at 20°C | | | | | | | |
| | Rated voltage (V) | 4 | 6.3 | 10 | 16 | 25 | 35 | 50 |
| Stability at Low Temperature | Measurement frequency : 120Hz | | | | | | | |
| | Rated voltage (V) | 4 | 6.3 | 10 | 16 | 25 | 35 | 50 |
| | Impedance ratio ZT / Z20 (max.) | Z(-25°C) / Z(+20°C) | 7 | 4 | 3 | 2 | 2 | 2 |
| Endurance | 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 at 85°C. | | Capacitance change | | Within ±20% of the initial capacitance value | | | |
| | | | tan δ | | 200% 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 85°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. | | | | | | | |

※ I : Leakage Current (μA), C : Rated Capacitance (μF), V : Rated Voltage (V)

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.

UZS

■ 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) (85°C/120Hz) | Part Number |
|-----------------------------|------------------------|------------------------|-------|---|--------------------------------------|----------------|
| 4 (0G) | 33 | 4×4.5 | 0.50 | 3 | 28 | UZS0G330MCL1GB |
| | 47 | 4×4.5 | 0.50 | 3 | 33 | UZS0G470MCL1GB |
| | 100 | 5×4.5 | 0.50 | 4 | 56 | UZS0G101MCL1GB |
| | 220 | 6.3×4.5 | 0.50 | 8.8 | 96 | UZS0G221MCL1GB |
| 6.3 (0J) | 22 | 4×4.5 | 0.30 | 3 | 28 | UZS0J220MCL1GB |
| | 33 | 5×4.5 | 0.30 | 3 | 37 | UZS0J330MCL1GB |
| | 47 | 5×4.5 | 0.30 | 3 | 45 | UZS0J470MCL1GB |
| | 100 | 6.3×4.5 | 0.30 | 6.3 | 70 | UZS0J101MCL1GB |
| 10 (1A) | 22 | 5×4.5 | 0.24 | 3 | 33 | UZS1A220MCL1GB |
| | 33 | 5×4.5 | 0.24 | 3.3 | 41 | UZS1A330MCL1GB |
| | 47 | 6.3×4.5 | 0.24 | 4.7 | 52 | UZS1A470MCL1GB |
| 16 (1C) | 10 | 4×4.5 | 0.19 | 3 | 23 | UZS1C100MCL1GB |
| | 22 | 5×4.5 | 0.19 | 3.52 | 37 | UZS1C220MCL1GB |
| | 33 | 6.3×4.5 | 0.19 | 5.28 | 49 | UZS1C330MCL1GB |
| | 47 | 6.3×4.5 | 0.19 | 7.52 | 58 | UZS1C470MCL1GB |
| 25 (1E) | 4.7 | 4×4.5 | 0.16 | 3 | 16 | UZS1E4R7MCL1GB |
| | 10 | 5×4.5 | 0.16 | 3 | 27 | UZS1E100MCL1GB |
| | 22 | 6.3×4.5 | 0.16 | 5.5 | 42 | UZS1E220MCL1GB |
| | 33 | 6.3×4.5 | 0.16 | 8.25 | 52 | UZS1E330MCL1GB |
| 35 (1V) | 4.7 | 4×4.5 | 0.14 | 3 | 18 | UZS1V4R7MCL1GB |
| | 10 | 5×4.5 | 0.14 | 3.5 | 29 | UZS1V100MCL1GB |
| | 22 | 6.3×4.5 | 0.14 | 7.7 | 46 | UZS1V220MCL1GB |
| 50 (1H) | 1 | 4×4.5 | 0.14 | 3 | 8.4 | UZS1H010MCL1GB |
| | 2.2 | 4×4.5 | 0.14 | 3 | 13 | UZS1H2R2MCL1GB |
| | 3.3 | 4×4.5 | 0.14 | 3 | 17 | UZS1H3R3MCL1GB |
| | 4.7 | 5×4.5 | 0.14 | 3 | 20 | UZS1H4R7MCL1GB |
| | 10 | 6.3×4.5 | 0.14 | 5 | 33 | UZS1H100MCL1GB |

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