

UZG3.95mmL MAX. Chip Type,
Wide Temperature Range

For SMD



Smaller

Anti-Solvent
Feature

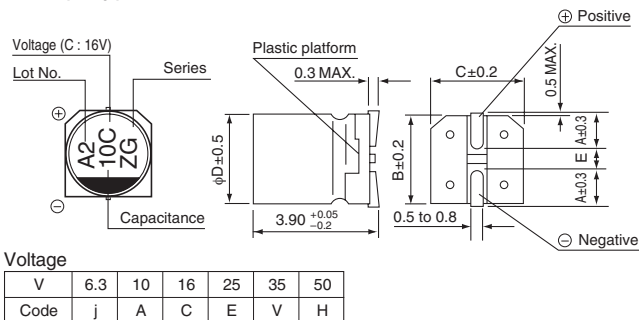
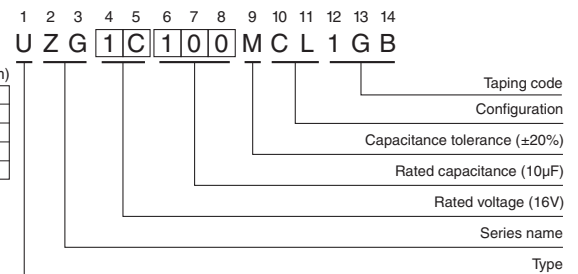
- Chip type with 3.95mmLMAX height. Operating over wide temperature range of -40 to $+105^{\circ}\text{C}$.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU, (EU)2015/863).
- AEC-Q200 compliant. Please contact us for details.

**UZG**

■ 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 0.01 CV or 3 (μA) , whichever is greater. | | | | | | | |
| Tangent of loss angle (tan δ) | Rated voltage (V) | 6.3 | 10 | 16 | 25 | 35 | 50 | 120Hz 20°C |
| | tan δ (MAX.) | 0.38 | 0.32 | 0.20 | 0.16 | 0.14 | 0.14 | |
| Stability at Low Temperature | Rated voltage (V) | 6.3 | 10 | 16 | 25 | 35 | 50 | 120Hz |
| | Impedance ratio ZT / Z20 (MAX.) | Z-25°C / Z+20°C | 6 | 5 | 3 | 3 | 3 | |
| | | Z-40°C / Z+20°C | 10 | 10 | 6 | 6 | 4 | |
| 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 ±30% of the initial capacitance value | |
| | | | | | tan δ | | 300% 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 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. | | | | | | | |
| 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. | | | | | | | |

■ Chip Type

Type numbering system (Example : 16V $10\mu\text{F}$)

● 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 |

UZG

■ Dimensions

| Rated Voltage (V) (code) | Rated Capacitance (μ F) | Case Size ϕ D \times L (mm) | $\tan \delta$ | Leakage Current (μ A) (at 20°C after 2 minutes) | Rated Ripple (mA _{rms}) (105°C/120Hz) | Part Number |
|--------------------------------|---------------------------------|---------------------------------------|---------------|---|---|----------------|
| 6.3 (0J) | 22 | 4 \times 3.9 | 0.38 | 3 | 19 | UZG0J220MCL1GB |
| | 33 | 5 \times 3.9 | 0.38 | 3 | 26 | UZG0J330MCL1GB |
| | 47 | 5 \times 3.9 | 0.38 | 3 | 32 | UZG0J470MCL1GB |
| | 100 | 6.3 \times 3.9 | 0.38 | 6.3 | 52 | UZG0J101MCL1GB |
| 10 (1A) | 22 | 5 \times 3.9 | 0.32 | 3 | 24 | UZG1A220MCL1GB |
| | 33 | 5 \times 3.9 | 0.32 | 3.3 | 30 | UZG1A330MCL1GB |
| | 47 | 6.3 \times 3.9 | 0.32 | 4.7 | 40 | UZG1A470MCL1GB |
| 16 (1C) | 10 | 4 \times 3.9 | 0.20 | 3 | 16 | UZG1C100MCL1GB |
| | 22 | 5 \times 3.9 | 0.20 | 3.52 | 26 | UZG1C220MCL1GB |
| | 33 | 6.3 \times 3.9 | 0.20 | 5.28 | 35 | UZG1C330MCL1GB |
| | 47 | 6.3 \times 3.9 | 0.20 | 7.52 | 44 | UZG1C470MCL1GB |
| 25 (1E) | 4.7 | 4 \times 3.9 | 0.16 | 3 | 11 | UZG1E4R7MCL1GB |
| | 10 | 5 \times 3.9 | 0.16 | 3 | 20 | UZG1E100MCL1GB |
| | 22 | 6.3 \times 3.9 | 0.16 | 5.5 | 33 | UZG1E220MCL1GB |
| | 33 | 6.3 \times 3.9 | 0.16 | 8.25 | 42 | UZG1E330MCL1GB |
| 35 (1V) | 4.7 | 4 \times 3.9 | 0.14 | 3 | 13 | UZG1V4R7MCL1GB |
| | 10 | 5 \times 3.9 | 0.14 | 3.5 | 22 | UZG1V100MCL1GB |
| | 22 | 6.3 \times 3.9 | 0.14 | 7.7 | 36 | UZG1V220MCL1GB |
| 50 (1H) | 1 | 4 \times 3.9 | 0.14 | 3 | 5.4 | UZG1H010MCL1GB |
| | 2.2 | 4 \times 3.9 | 0.14 | 3 | 9.6 | UZG1H2R2MCL1GB |
| | 3.3 | 4 \times 3.9 | 0.14 | 3 | 12 | UZG1H3R3MCL1GB |
| | 4.7 | 5 \times 3.9 | 0.14 | 3 | 16 | UZG1H4R7MCL1GB |
| | 10 | 6.3 \times 3.9 | 0.14 | 5 | 26 | UZG1H100MCL1GB |

- For taping specifications, recommended land size/soldering by reflow and minimum order quantity, please refer to the Guidelines for Aluminum Electrolytic Capacitors.

Mouser Electronics

Authorized Distributor

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