

UWX

5.5mmL Chip Type



- Chip type with 5.5mm height.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine fed with carrier tape.
- Load life of 2000 hours at 85°C.
- 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 +85°C | | | | | | | | | |
| Rated Voltage Range | 4 to 50V | | | | | | | | | |
| Rated Capacitance Range | 1 to 330μF | | | | | | | | | |
| 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 | | | | | | | | Values in () applicable to WR. | |
| | Rated voltage (V) | 4 | 6.3 | 10 | 16 | 25 | 35 | 50 | | |
| Stability at Low Temperature | Measurement frequency : 120Hz | | | | | | | | | |
| | Impedance ratio ZT / Z20 (MAX.) | Z-25°C / Z+20°C | | 7 | 4 | 3 | 2 | 2 | | 2 |
| | | Z-40°C / Z+20°C | | 15 | 8 | 8 | 4 | 4 | | 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 2000 hours at 85°C. | | Capacitance change | | Within ±20% of the initial capacitance value (Within ±25% for 4 V and WR series units) | | | | | |
| | | | 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. | | | | | | | | | |

Chip Type



※1. Voltage mark for 6.3V is 「6V」.

Type numbering system (Example : 16V 10μF)



● Dimension table in next page.

UWX

■ Dimensions

| Cap. (μF) | Code | V | | 4 | | 6.3 | | 10 | | 16 | | 25 | | 35 | | 50 | |
|-----------|------|-----|-----|------|----------|------|----------|------|---------|------|---------|---------|---------|---------|---------|---------|---------|
| | | 0G | 0J | 1A | 1C | 1E | 1V | 1H | | | | | | | | | |
| 1 | 010 | | | | | | | | | | | | | | | 4 | 8.4 |
| 2.2 | 2R2 | | | | | | | | | | | | | | | 4 | 13 |
| 3.3 | 3R3 | | | | | | | | | | | | | | | 4 | 17 |
| 4.7 | 4R7 | | | | | | | | | | | 4 | 16 | 4 | 18 | •5 | 20 (18) |
| 10 | 100 | | | | | | | | 4 | 23 | •5 | 27 (24) | •5 | 29 (24) | ○6.3 | 33 (30) | |
| 22 | 220 | | | 4 | 28 | •5 | 33 (30) | •5 | 37 (30) | ○6.3 | 42 (38) | ○6.3 | 46 (39) | □8 | 52 (43) | | |
| 33 | 330 | 4 | 28 | •5 | 37 (34) | •5 | 41 (34) | ○6.3 | 49 (44) | ○6.3 | 52 (46) | □8 | 62 (53) | 8 | 71 | | |
| 47 | 470 | 4 | 33 | •5 | 45 (40) | ○6.3 | 52 (47) | ○6.3 | 58 (52) | □8 | 70 (60) | 8 | 80 | | | | |
| 56 | 560 | 5 | 42 | ○6.3 | 52 (46) | ○6.3 | 57 (50) | ○6.3 | 63 (57) | □8 | 76 (65) | | | | | | |
| 100 | 101 | 5 | 56 | ○6.3 | 70 (47) | ○6.3 | 76 (54) | 6.3 | 86 | 8 | 110 | | | | | | |
| 150 | 151 | 6.3 | 79 | 6.3 | 71 | □8 | 111 (76) | | | | | | | | | | |
| 220 | 221 | 6.3 | 96 | □8 | 110 (74) | 8 | 135 | | | | | | | | | | |
| 330 | 331 | 8 | 145 | 8 | 170 | | | | | | | | | | | | |

Size φ4 is available for capacitors marked. " • " " " } In such a case, $\overline{W|B}$ will be put at 2nd and 3rd digit of type numbering system.
 Size φ5 is available for capacitors marked. " ○ " " " }
 Size φ6.3 is available for capacitors marked. " □ " " " }

Rated ripple current (mArms) at 85°C 120Hz
 () = UWR

● 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 |

- Taping specifications are given in page 23.
- Recommended land size, soldering by reflow are given in page 18, 19.
- Please select UUR(p.168), UUG(p.174) if high C/V products are required.
- Please refer to page 3 for the minimum order quantity.

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