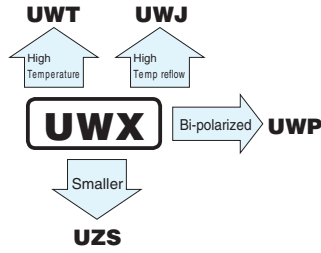


## UWX

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  |  |             |             |             |             |             |    |
|                               | Rated voltage (V)  | 4  | 6.3         | 10          | 16          | 25          | 35          | 50 |
| tan δ (MAX.)                  | 0.35 (0.40)  | 0.26 (0.30)  | 0.20 (0.24) | 0.16 (0.19) | 0.14 (0.16) | 0.12 (0.14) | 0.12 (0.14) |    |
| Stability at Low Temperature  | Measurement frequency : 120Hz  |  |             |             |             |             |             |    |
|                               | Rated voltage (V)  | 4  | 6.3         | 10          | 16          | 25          | 35          | 50 |
|                               | Impedance ratio<br>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 (Within ±25% for 4 V and WR series units) |             |             |             |             |             |    |
|                               | tan δ  | 200% or less than 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. |  |             |             |             |             |             |    |
|                               | Capacitance change   | Within ±10% of the initial capacitance value   |             |             |             |             |             |    |
|                               | tan δ  | Less than or equal to the initial specified 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.              |  |             |             |             |             |             |    |
|                               | Capacitance change   | 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.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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