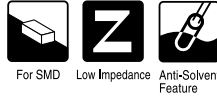


ALUMINUM ELECTROLYTIC CAPACITORS

WF series Chip Type, Low Impedance



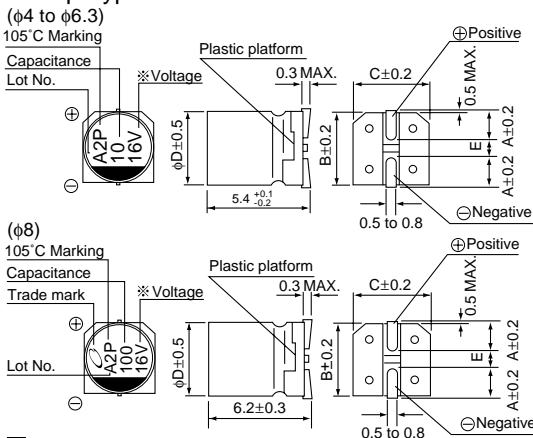
- Chip type, low impedance temperature range up to +105°C.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2002/95/EC).



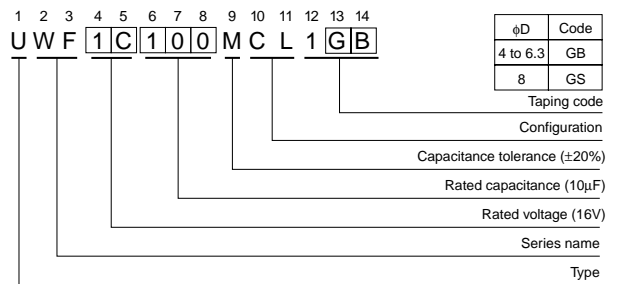
Specifications

| Item | Performance Characteristics | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|--|--|----|----|----|--------------------|--|--|--|--|--|-------|---|--|--|--|--|-----------------|---|--|--|--|--|
| Category Temperature Range | -55 to +105°C | | | | | | | | | | | | | | | | | | | | | | | |
| Rated Voltage Range | 6.3 to 35V | | | | | | | | | | | | | | | | | | | | | | | |
| Rated Capacitance Range | 1 to 220µF | | | | | | | | | | | | | | | | | | | | | | | |
| Capacitance Tolerance | ±20% at 120Hz, 20°C | | | | | | | | | | | | | | | | | | | | | | | |
| Leakage Current | After 2 minutes' application of rated voltage, 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 | | | | | | | | | | | | | | | | | | |
| Stability at Low Temperature | Measurement frequency : 120Hz | | | | | | | | | | | | | | | | | | | | | | | |
| | Rated voltage (V) | | 6.3 | 10 | 16 | 25 | 35 | | | | | | | | | | | | | | | | | |
| | Impedance ratio | Z-25°C / Z+20°C | 2 | 2 | 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 1000 hours at 105°C. | | <table border="1"> <tr> <td>Capacitance change</td> <td colspan="5">Within ±20% of the initial capacitance value</td> </tr> <tr> <td>tan δ</td> <td colspan="5">200% or less than the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td colspan="5">Less than or equal to the initial specified value</td> </tr> </table> | | | | 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 | | | | |
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| 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 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. | | <table border="1"> <tr> <td>Capacitance change</td> <td colspan="5">Within ±10% of the initial capacitance value</td> </tr> <tr> <td>tan δ</td> <td colspan="5">Less than or equal to the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td colspan="5">Less than or equal to the initial specified value</td> </tr> </table> | | | | 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 | | | | |
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| 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)



Dimensions

| Cap. (µF) | Code | 6.3 | | | 10 | | | 16 | | | 25 | | | 35 | | | |
|-----------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| | | 0J | | | 1A | | | 1C | | | 1E | | | 1V | | | |
| 1 | 010 | | | | | | | | | | | | | 4 | 5.0 | 50 | |
| 1.5 | 1R5 | | | | | | | | | | | | | 4 | 5.0 | 50 | |
| 2.2 | 2R2 | | | | | | | | | | | | | 4 | 5.0 | 50 | |
| 3.3 | 3R3 | | | | | | | | | | | | | 4 | 5.0 | 50 | |
| 4.7 | 4R7 | | | | | | | | | | | | 4 | 5.0 | 50 | | |
| 6.8 | 6R8 | | | | | | | | | | | 4 | 5.0 | 50 | 5 | 2.6 | 80 |
| 10 | 100 | | | | | | | 4 | 5.0 | 50 | 5 | 2.6 | 80 | 5 | 2.6 | 80 | |
| 15 | 150 | | | | | | | 5 | 2.6 | 80 | 6.3 | 1.3 | 115 | 6.3 | 1.3 | 115 | |
| 22 | 220 | 4 | 5.0 | 50 | 5 | 2.6 | 80 | 5 | 2.6 | 80 | 6.3 | 1.3 | 115 | 6.3 | 1.3 | 115 | |
| 33 | 330 | 5 | 2.6 | 80 | 5 | 2.6 | 80 | 6.3 | 1.3 | 115 | 6.3 | 1.3 | 115 | 8 | 0.8 | 150 | |
| 47 | 470 | 5 | 2.6 | 80 | 6.3 | 1.3 | 115 | 6.3 | 1.3 | 115 | 8 | 0.8 | 150 | 8 | 0.8 | 150 | |
| 68 | 680 | 6.3 | 1.3 | 115 | 6.3 | 1.3 | 115 | 8 | 0.8 | 150 | 8 | 0.8 | 150 | | | | |
| 100 | 101 | 6.3 | 1.3 | 115 | 8 | 0.8 | 150 | 8 | 0.8 | 150 | | | | | | | |
| 150 | 151 | 8 | 0.8 | 150 | 8 | 0.8 | 150 | | | | | | | | | | |
| 220 | 221 | 8 | 0.8 | 150 | | | | | | | | | | | | | |

Frequency coefficient of rated ripple current

| Frequency | 50 Hz | 120 Hz | 300 Hz | 1 kHz | 10 kHz or more |
|-------------|-------|--------|--------|-------|----------------|
| Coefficient | 0.35 | 0.50 | 0.64 | 0.83 | 1.00 |

- Taping specifications are given in page 23.
- Recommended land size, soldering by reflow are given in page 18, 19.
- Please select UJ(p.116) series 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!

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- 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.);

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- 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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