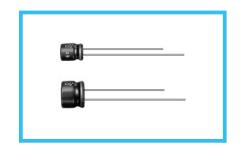
ALUMINUM ELECTROLYTIC CAPACITORS





- Low impedance over wide temperature range of -55 to +105°C, with 5mm height.
- Suited for DC-DC converters where smaller case size and lower impedance are required.
- Compliant to the RoHS directive (2002/95/EC).

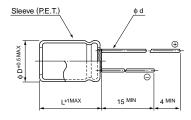


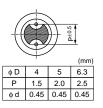


■Specifications

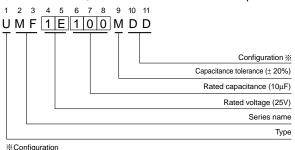
| Item | Performance Characteristics | | | | | | | | | | |
|-------------------------------|--|---------------|------|-------------|---|------------------------|------------------|----------------------|--|--|--|
| Category Temperature Range | −55 to +105°C | | | | | | | | | | |
| Rated Voltage Range | 6.3 to 35V | | | | | | | | | | |
| Rated Capacitance Range | 1 to 100μF | | | | | | | | | | |
| Rated 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. | | | | | | | | | | |
| | Measurement frequency : 120Hz, Temperature : 20°C | | | | | | | | | | |
| Tangent of loss angle (tan δ) | Rated voltage (V) | 6.3 | 10 | 16 | | 25 | 35 | | | | |
| | tan δ (MAX.) | 0.22 | 0.20 | 0.18 | 3 | 0.14 | 0.12 | | | | |
| | Measurement frequency : 120Hz | | | | | | | | | | |
| Ctability at Law Tagas and a | Rated voltag | e (V) | 6.3 | 10 | 16 | 25 | 35 | | | | |
| Stability at Low Temperature | poddiioo idiio | 25°C / Z+20°C | 2 | 2 | 2 | 2 | 2 | | | | |
| | ZT / Z20 (MAX.) Z- | 55°C /Z+20°C | 4 | 4 | 3 | 3 | 3 | | | | |
| | The specifications listed | | | Capacitance | change | Within +20 | ογ of the initia | al capacitance value | | | |
| Endurance | when the capacitors are | C tan δ | | | | nitial specified value | | | | | |
| 2.144.4.195 | after the rated voltage is | | | | Less than or equal to the initial specified value | | | | | | |
| | hours at 105°C. | | | | | | | | | | |
| Shelf Life | After storig 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. | | | | | | | | | | |
| Marking | Printed with white color letter on dark brown sleeve. | | | | | | | | | | |

■Radial Lead Type





Type numbering system (Example : 25V 10μ F)



| *Configuration | | | | | | | |
|----------------|--|--|--|--|--|--|--|
| φD | Pb-free leadwire Pb-free PET sleeve | | | | | | |
| 4 to 6.3 | DD | | | | | | |

Dimensions

| | V | | 6.3 | | | 10 | | | 16 | | | 25 | | | 35 | |
|----------|------|-------|-----|--------|-------|-----|--------|-------|-----|--------|---------|-----|--------|-----------|---------------|--------------|
| Cap.(μF) | Code | | 0J | | | 1A | | | 1C | | | 1E | | | 1V | |
| 1 | 010 | | | l I | i | | İ | | | I I | 1 | | i i | 4×5 | 5.0 | 50 |
| 1.5 | 1R5 | | | l I | i | | i | | | I I | 1 | | i | 4×5 | 5.0 | 50 |
| 2.2 | 2R2 | | | | | | | | | | | | [[| 4×5 | 5.0 | 50 |
| 3.3 | 3R3 | | | l I | | | 1 | | | l I | | | | 4×5 | 5.0 | 50 |
| 4.7 | 4R7 | | | l I | | | 1 | | | I I | 4×5 | 5.0 | ¦ 50 | 4×5 | 5.0 | 50 |
| 6.8 | 6R8 | | | l I | | | | | | l I | 4×5 | 5.0 | 50 t | 5×5 | 2.6 | 80 |
| 10 | 100 | | | | | | I I | 4×5 | 5.0 | 50 | 5×5 ¦ | 2.6 | ¦ 80 | 5×5 | 2.6 | 80 |
| 15 | 150 | | | | | | I I | 5×5 | 2.6 | ¦ 80 | 6.3×5 ¦ | 1.3 | ¦ 115 | 6.3×5 | 1.3 | 115 |
| 22 | 220 | 4×5 | 5.0 | ¦ 50 | 5×5 ¦ | 2.6 | 80 | 5×5 | 2.6 | ¦ 80 | 6.3×5 ¦ | 1.3 | ¦ 115 | 6.3×5 | 1.3 | 115 |
| 33 | 330 | 5×5 | 2.6 | ¦ 80 | 5×5 ¦ | 2.6 | 80 | 6.3×5 | 1.3 | ¦ 115 | 6.3×5 ¦ | 1.3 | ¦ 115 | | l I | |
| 47 | 470 | 5×5 | 2.6 | l 80 | 6.3×5 | 1.3 | 115 | 6.3×5 | 1.3 | 115 | | | I I | | | |
| 68 | 680 | 6.3×5 | 1.3 | ¦ 115 | | | 1 | | | | | | | Case size | I Impedance I | Rated ripple |
| 100 | 101 | 6.3×5 | 1.3 | 115 | | | İ | | | İ | | | i | φD×L (mm) | Impedance | ripple |

Max. Impedance (Ω) at 20°C 100kHz Rated ripple current (mArms) at 105°C 100kHz

• 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 | |

Please refer to page 20, 21, 22 about the formed or taped product spec. Please refer to page 4 for the minimum order quantity.