

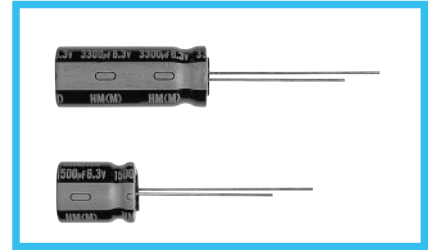
ALUMINUM ELECTROLYTIC CAPACITORS



HM Low Impedance,
For PC motherboard
series



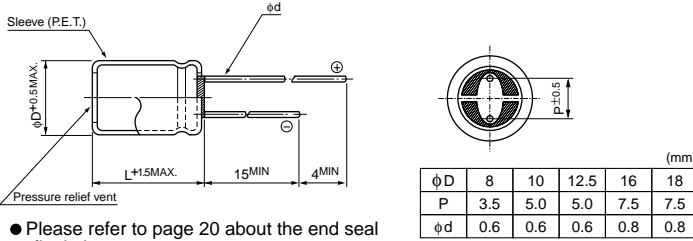
- Lower impedance than HD, HC series.
- Compliant to the RoHS directive (2002/95/EC).



Specifications

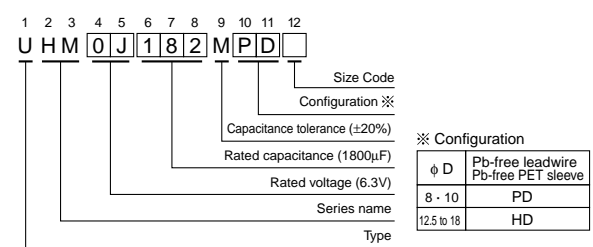
| Item | Performance Characteristics | | | | |
|-------------------------------|---|---|------|------|------------|
| Category Temperature Range | -40 to +105°C | | | | |
| Rated Voltage Range | 6.3 to 16V | | | | |
| Rated Capacitance Range | 330 to 12000μF | | | | |
| Capacitance Tolerance | ±20% (120Hz, 20°C) | | | | |
| Leakage Current | After 2 minutes' application of rated voltage, leakage current is less than 0.03CV | | | | |
| Tangent of loss angle (tan δ) | For capacitance of more than 1000μF, add 0.02 for every increase of 1000μF | | | | |
| | Rated voltage (V) | 6.3 | 10 | 16 | 120Hz 20°C |
| Stability at Low Temperature | tan δ (MAX.) | 0.22 | 0.19 | 0.16 | |
| | Rated voltage (V) | 6.3 | 10 | 16 | 120Hz |
| Endurance | Impedance ratio ZT / Z20 (MAX.) | Z-40°C / Z+20°C | 3 | 3 | 3 |
| | The specifications listed at right shall be met when the capacitors are restored to 20°C after D.C. bias plus rated ripple current is applied for 2000 hours at 105°C, the peak voltage shall not exceed the rated voltage. | | | | |
| Marking | Capacitance change | Within ±25% 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 | | | |
| Marking | Printed with white color black sleeve. | | | | |

Radial Lead Type



- Please refer to page 20 about the end seal configuration.

Type numbering system (Example : 6.3V 1800μF)



Standard Ratings

| Cap. (μF) | V (Code) | Item Code | 6.3 (0J) | | | 10 (1A) | | | 16 (1C) | | |
|-----------|----------|-----------|-----------------------|-----------------------------------|--------------------------------------|-----------------------|-----------------------------------|--------------------------------------|-----------------------|-----------------------------------|--------------------------------------|
| | | | Case size φD × L (mm) | Impedance (mΩ) MAX. 20°C / 100kHz | Rated ripple (mA rms) 105°C / 100kHz | Case size φD × L (mm) | Impedance (mΩ) MAX. 20°C / 100kHz | Rated ripple (mA rms) 105°C / 100kHz | Case size φD × L (mm) | Impedance (mΩ) MAX. 20°C / 100kHz | Rated ripple (mA rms) 105°C / 100kHz |
| 330 | | 331 | | | | 8 × 11.5 | 30 | 1140 | 8 × 11.5 | 30 | 1140 |
| 470 | | 471 | | | | 8 × 11.5 | 30 | 1140 | 8 × 11.5 | 30 | 1140 |
| 560 | | 561 | 8 × 11.5 | 30 | 1140 | | | | ▲ 10 × 12.5 | 25 | 1540 |
| 680 | 681 | | | | | 8 × 11.5 | 30 | 1140 | 10 × 12.5 | 25 | 1540 |
| | | | | | | ▲ 10 × 12.5 | 25 | 1540 | ▲ 8 × 15 | 28 | 1490 |
| 820 | 821 | | | | | ▲ 10 × 12.5 | 25 | 1540 | ● 8 × 20 | 18 | 1870 |
| | | | | | | ● 8 × 11.5 | 30 | 1140 | ○ 10 × 16 | 18 | 2000 |
| | | | | | | 8 × 15 | 28 | 1490 | 10 × 16 | 18 | 2000 |
| 1000 | 102 | | | | | ▲ 10 × 12.5 | 25 | 1540 | ▲ 8 × 20 | 18 | 1870 |
| | | | | | | ● 8 × 11.5 | 30 | 1140 | ● 10 × 20 | 18 | 2000 |
| | | | | | | 8 × 15 | 28 | 1490 | ○ 8 × 20 | 18 | 1870 |
| 1200 | 122 | | | | | 10 × 12.5 | 25 | 1540 | 10 × 16 | 18 | 2000 |
| | | | | | | ▲ 8 × 20 | 16 | 1950 | ▲ 8 × 20 | 18 | 1870 |
| | | | | | | ● 10 × 16 | 18 | 2000 | | | |
| 1500 | 152 | | | | | 10 × 16 | 19 | 2000 | 10 × 20 | 13 | 2550 |
| | | | | | | ▲ 8 × 20 | 16 | 1950 | | | |
| | | | | | | ● 10 × 16 | 18 | 2000 | | | |
| 1800 | 182 | | | | | 10 × 20 | 13 | 2550 | 10 × 25 | 12 | 2800 |
| | | | | | | ▲ 8 × 20 | 16 | 1950 | ▲ 12.5 × 20 | 11 | 2800 |
| | | | | | | 10 × 20 | 13 | 2550 | | | |
| 2200 | 222 | | | | | ▲ 8 × 20 | 16 | 1950 | | | |
| | | | | | | ● 10 × 16 | 18 | 2000 | | | |
| | | | | | | 10 × 20 | 13 | 2550 | | | |
| 2700 | 272 | | | | | 10 × 20 | 13 | 2550 | 12.5 × 25 | 10 | 2900 |
| | | | | | | ▲ 8 × 20 | 16 | 1950 | | | |
| | | | | | | 10 × 20 | 13 | 2550 | | | |
| 3300 | 332 | | | | | ▲ 12.5 × 20 | 11 | 3000 | 16 × 25 | 9 | 3070 |
| | | | | | | ○ 10 × 20 | 13 | 2550 | | | |
| | | | | | | 10 × 25 | 12 | 2800 | | | |
| 5600 | | 562 | 12.5 × 25 | 10 | 2900 | | | 18 × 25 | 8 | 3250 | |
| 6800 | | 682 | | | | 16 × 25 | 9 | 3070 | | | |
| 8200 | | 822 | 16 × 25 | 9 | 3070 | 18 × 25 | 8 | 3250 | | | |
| 12000 | | 123 | 18 × 25 | 8 | 3250 | | | | | | |

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

- ▲ : In this case, [6] will be put at 12th digit of type numbering system.
- : In this case, [3] will be put at 12th digit of type numbering system.
- : In this case, [9] will be put at 12th digit of type numbering system.

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