

# ALUMINUM ELECTROLYTIC CAPACITORS

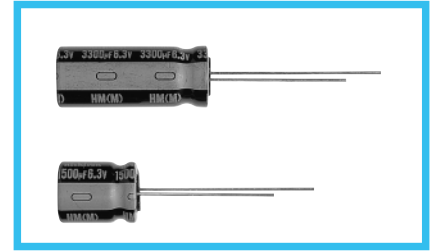


**HM** Low Impedance,  
For PC motherboard  
series



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

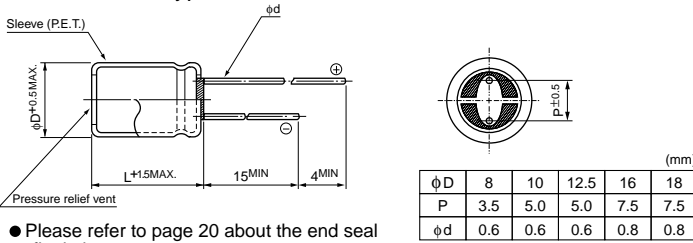
Products which are scheduled to be discontinued.  
Not recommended for new designs



## Specifications

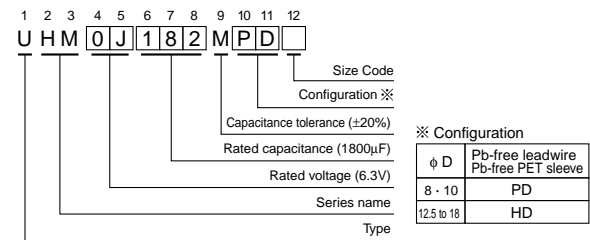
Item	Performance Characteristics				
Category Temperature Range	-40 to +105°C				
Rated Voltage Range	6.3 to 16V				
Rated Capacitance Range	330 to 12000μF				
Capacitance Tolerance	±20% (120Hz, 20°C)				
Leakage Current	After 2 minutes' application of rated voltage, leakage current is less than 0.03CV				
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.		Capacitance change	Within ±25% of the initial capacitance value	
Marking	Printed with white color letter on black sleeve.	tan δ	200% or less than the initial specified value		
		Leakage current	Less than or equal to the initial specified value		

## Radial Lead Type



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

## Type numbering system (Example : 6.3V 1800μF)



## Standard Ratings

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
	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
820	821	8 × 11.5	30	1140	▲ 10 × 12.5	25	1540	▲ 8 × 15	28	1490
	1000	102	8 × 15	28	1490	▲ 10 × 12.5	25	1540	● 8 × 20	18
1200	122	8 × 15	28	1490	● 10 × 16	18	2000	○ 10 × 16	18	2000
	1500	152	▲ 10 × 12.5	25	1540	▲ 8 × 15	28	1490	▲ 8 × 20	18
1800	182	● 8 × 11.5	30	1140	○ 8 × 20	18	1870	● 10 × 20	13	2550
	2200	222	10 × 16	19	2000	10 × 20	13	2550	10 × 20	13
2700	272	▲ 8 × 20	16	1950	▲ 8 × 20	18	1870	● 10 × 16	18	2000
	3300	332	● 10 × 16	18	2000	10 × 25	12	2800	10 × 25	12
5600	562	▲ 8 × 20	16	1950	10 × 25	12	2800	▲ 12.5 × 20	11	2800
	6800	682	10 × 16	19	2000	10 × 20	13	2550	10 × 25	12
8200	822	▲ 8 × 20	16	1950	10 × 25	12	2800	12.5 × 25	10	2900
	12000	123	● 10 × 16	18	2000	12.5 × 25	10	2900	12.5 × 25	10
3300	332	10 × 20	13	2550	12.5 × 25	10	2900	16 × 25	9	3070
	5600	562	12.5 × 25	10	2900	16 × 25	9	3070	18 × 25	8
6800	682	16 × 25	9	3070	16 × 25	9	3070	18 × 25	8	3250
	8200	822	18 × 25	8	3250	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.

CAT.8100A-1

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