

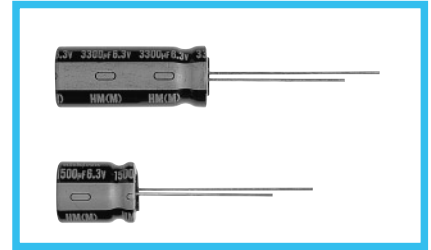
# ALUMINUM ELECTROLYTIC CAPACITORS



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



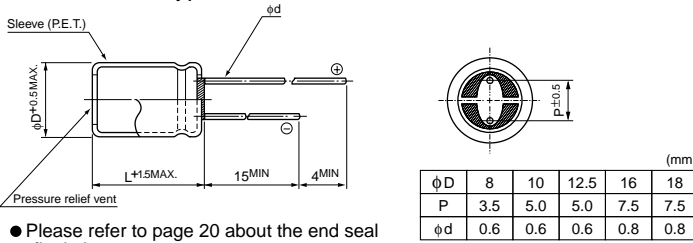
- Lower impedance than HD, HC series.
- Compliant to the RoHS directive (2002/95/EC).



## Specifications

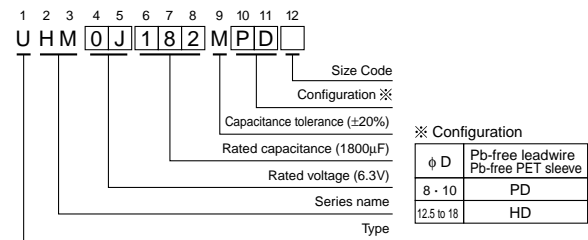
Item	Performance Characteristics				
Category Temperature Range	-40 to +105°C				
Rated Voltage Range	6.3 to 16V				
Rated Capacitance Range	330 to 12000μF				
Capacitance Tolerance	±20% (120Hz, 20°C)				
Leakage Current	After 2 minutes' application of rated voltage, leakage current is less than 0.03CV				
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 (mArms) 105°C / 100kHz	Case size φD × L (mm)	Impedance (mΩ) MAX. 20°C / 100kHz	Rated ripple (mArms) 105°C / 100kHz	Case size φD × L (mm)	Impedance (mΩ) MAX. 20°C / 100kHz	Rated ripple (mArms) 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		8 × 11.5	30	1140	▲ 10 × 12.5	25	1540	● 8 × 20	18	1870
									○ 10 × 16	18	2000
1000	102		8 × 15	28	1490	10 × 12.5	25	1540	10 × 16	18	2000
			▲ 10 × 12.5	25	1540	▲ 8 × 15	28	1490	▲ 8 × 20	18	1870
			● 8 × 11.5	30	1140	● 10 × 16	18	2000	● 10 × 20	13	2550
1200	122		8 × 15	28	1490	○ 8 × 20	18	1870			
			10 × 12.5	25	1540	10 × 16	18	2000			
			▲ 8 × 20	16	1950	▲ 8 × 20	18	1870	10 × 20	13	2550
1500	152		● 10 × 16	18	2000						
			10 × 16	19	2000	10 × 20	13	2550	10 × 25	12	2800
			▲ 8 × 20	16	1950				▲ 12.5 × 20	11	2800
1800	182		10 × 20	13	2550						
			▲ 8 × 20	16	1950						
			10 × 20	13	2550						
2200	222		▲ 8 × 20	16	1950	10 × 25	12	2800			
			● 10 × 16	18	2000						
2700	272		10 × 20	13	2550	12.5 × 20	11	3000	12.5 × 25	10	2900
			10 × 25	12	2800						
			▲ 12.5 × 20	11	3000	12.5 × 25	10	2900	16 × 25	9	3070
3300	332		○ 10 × 20	13	2550						
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.

CAT.8100Y

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