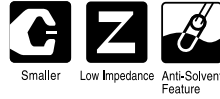
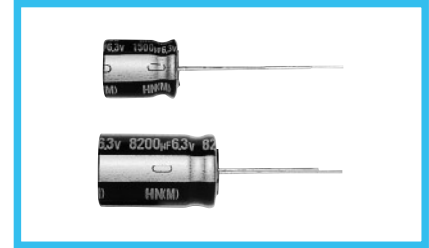


# ALUMINUM ELECTROLYTIC CAPACITORS

**HN** Ultra Low Impedance,  
For PC motherboard  
series



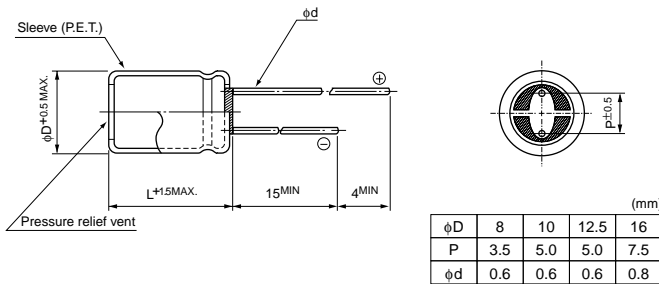
- Lower impedance than HM series.
- Compliant to the RoHS directive (2002/95/EC).



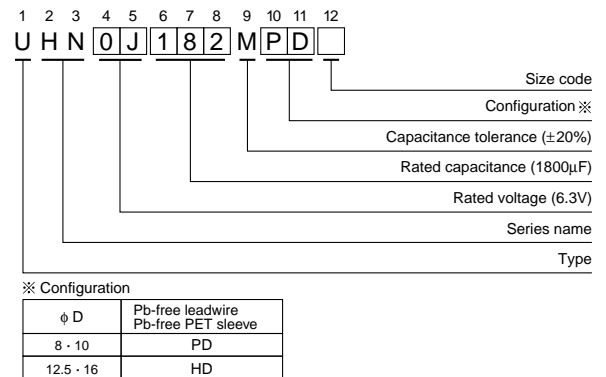
## Specifications

Item	Performance Characteristics									
Category Temperature	- 25 to +105°C									
Rated Voltage Range	6.3 to 16V									
Rated Capacitance Range	330 to 8200µF									
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 Z1 / Z20 (MAX.)	Z-25°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.		<table border="1"> <tr> <td>Capacitance change</td> <td>Within ±30% of the initial capacitance value</td> </tr> <tr> <td>tan δ</td> <td>200% or less than the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>Less than or equal to the initial specified value</td> </tr> </table>			Capacitance change	Within ±30% of the initial capacitance value	tan δ	200% or less than the initial specified value	Leakage current
Capacitance change	Within ±30% 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 gold color on black sleeve.									

## Radial Lead Type



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



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

## Standard Ratings

Cap. (µF)	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	21	1300
470	471				8 × 11.5	21	1300	8 × 11.5	21	1300
560	561	8 × 11.5	21	1300				▲ 10 × 12.5	18	1760
680	681				8 × 11.5	21	1300	10 × 12.5	18	1760
					▲ 10 × 12.5	18	1760	● 8 × 20	12	2220
820	821	8 × 11.5	21	1300	10 × 12.5	18	1760	○ 10 × 16	11	2280
		8 × 15	20	1700	10 × 12.5	18	1760	10 × 16	11	2280
1000	102	▲ 10 × 12.5	18	1760	● 10 × 16	11	2280	▲ 8 × 20	12	2220
					○ 8 × 20	12	2220	● 10 × 20	10	2900
1200	122	8 × 15	20	1700	10 × 16	11	2280	10 × 20	10	2900
		10 × 12.5	18	1760	10 × 16	11	2280			
1500	152	▲ 8 × 20	12	2220	▲ 8 × 20	12	2220	10 × 20	10	2900
		● 10 × 16	11	2280						
1800	182	10 × 16	11	2280	10 × 20	10	2900	10 × 25	9	3190
		▲ 8 × 20	12	2220				▲ 12.5 × 20	9	3190
2200	222	● 10 × 16	11	2280	10 × 25	9	3190	12.5 × 20	9	3190
		10 × 20	10	2900	▲ 12.5 × 20	9	3190	▲ 12.5 × 25	8	3370
2700	272	10 × 20	10	2900	12.5 × 20	9	3190	12.5 × 25	8	3370
3300	332	10 × 25	9	3190	12.5 × 25	8	3370	16 × 25	7	3610
		▲ 12.5 × 20	9	3190						
4700	472	12.5 × 20	9	3190	12.5 × 25	8	3370			
5600	562	12.5 × 25	8	3370	16 × 25	7	3610			
8200	822	16 × 25	7	3610						

▲ : 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