

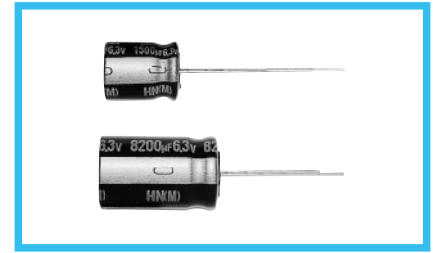
ALUMINUM ELECTROLYTIC CAPACITORS



HN Ultra Low Impedance,
For PC motherboard
series



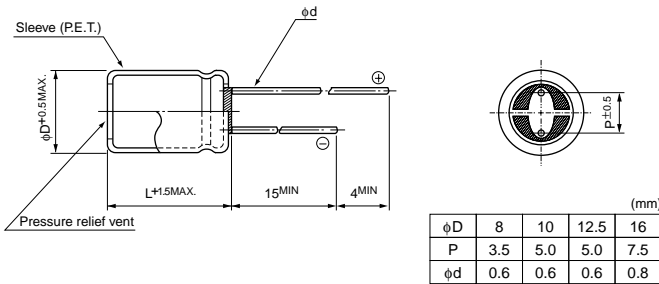
- Lower impedance than HM series.
- Compliant to the RoHS directive (2002/95/EC).



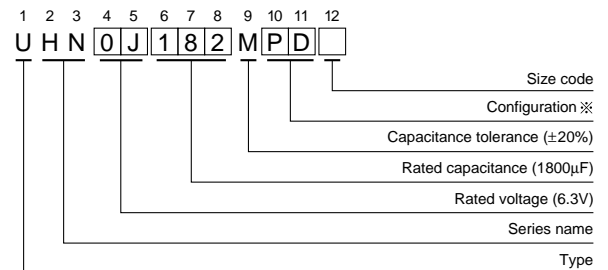
Specifications

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 For capacitance of more than 1000µF, add 0.02 for every increase of 1000µF				
Tangent of loss angle (tan δ)	Rated voltage (V)	6.3	10	16	120Hz 20°C
	tan δ (MAX.)	0.22	0.19	0.16	
Stability at Low Temperature	Rated voltage (V)	6.3	10	16	120Hz
	Impedance ratio ZT / Z20 (MAX.)	Z-25°C / Z+20°C	3	3	
Endurance	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 ±30% of the initial capacitance value			
	tan δ	200% or less than the initial specified value			
Marking	Leakage current	Less than or equal to the initial specified value			
	Printed with gold color on black sleeve.				

Radial Lead Type



Type numbering system (Example : 6.3V 1800µF)



※ Configuration

φ D	Pb-free leadwire Pb-free PET sleeve
8 · 10	PD
12.5 · 16	HD

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

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

- 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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