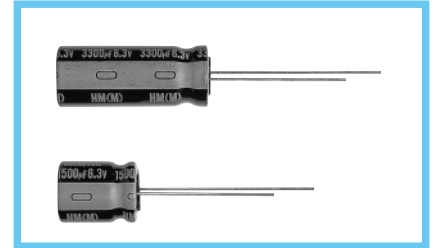


ALUMINUM ELECTROLYTIC CAPACITORS

HM Low Impedance series



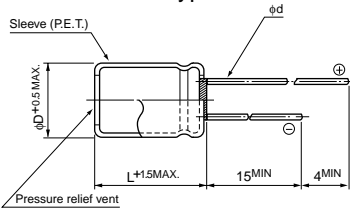
- Lower impedance than HD, HC series.
- Adapted to the RoHS directive (2002/95/EC).



Specifications

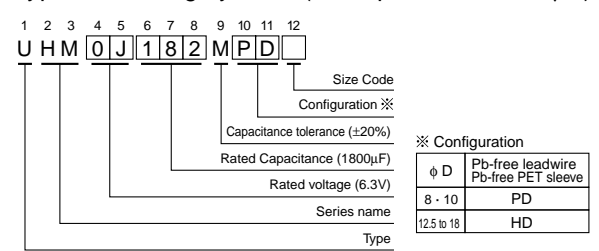
Item	Performance Characteristics				
Category Temperature Range	-40 to +105°C				
Rated Voltage Range	6.3 to 16V				
Rated Capacitance Range	330 to 12000μF				
Capacitance Tolerance	±20% (120Hz, 20°C)				
Leakage Current	After 2 minutes' application of rated voltage, leakage current is less than 0.03CV				
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
	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-40°C / Z+20°C	3	3	3	
Endurance	After an application of D.C. bias voltage plus the rated ripple current for 2000 hours at 105°C the peak voltage shall not exceed the rated D.C. voltage, capacitors meet the characteristic requirements listed below.				
	Capacitance change	Within ±25% of initial value			
	tan δ	200% or less of initial specified value			
	Leakage current	Initial specified value or less			
Marking	Printed with white color black sleeve.				

Radial Lead Type



	(mm)				
φD	8	10	12.5	16	18
P	3.5	5.0	5.0	7.5	7.5
φd	0.6	0.6	0.6	0.8	0.8

Type numbering system (Example : 6.3V 1800μF)



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

Standard ratings

Cap. (μF)	V (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
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
								● 8 × 20	18	1870
820	821							○ 10 × 16	18	2000
					8 × 11.5	30	1140			
					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	13	2550
1200	122	8 × 15	28	1490						
1500	152				10 × 12.5	25	1540	10 × 16	18	2000
					▲ 8 × 20	16	1950	▲ 8 × 20	18	1870
					● 10 × 16	18	2000			
1800	182				10 × 20	13	2550	10 × 20	13	2550
					10 × 16	19	2000	▲ 12.5 × 20	11	2800
					▲ 8 × 20	16	1950			
2200	222				10 × 20	13	2550			
					▲ 8 × 20	16	1950			
					● 10 × 16	18	2000			
2700	272	10 × 20	13	2550	12.5 × 20	11	3000	12.5 × 25	10	2900
3300	332				10 × 25	12	2800			
					▲ 12.5 × 20	11	3000	16 × 25	9	3070
					○ 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.