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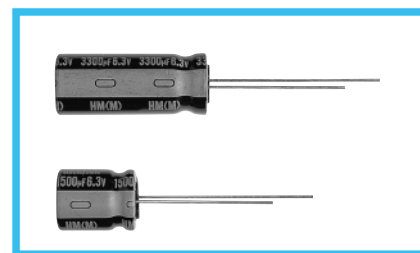
For any questions, you can email us directly:

sales@integrated-circuit.com

ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

HM Low Impedance,
For PC motherboard
series



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

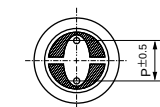
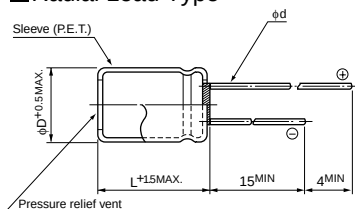
Products which are scheduled to be discontinued.
Not recommended for new designs



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	
	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	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
					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 letter on black sleeve.					

Radial Lead Type



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

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

Standard Ratings

V (Code)		6.3 (0J)			10 (1A)			16 (1C)		
Cap. (µF)	Item Code	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
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
								● 8 × 20	18	1870
								○ 10 × 16	18	2000
820	821	8 × 11.5	30	1140						
		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
					○ 8 × 20	18	1870			
1200	122	8 × 15	28	1490						
		10 × 12.5	25	1540	10 × 16	18	2000			
		▲ 8 × 20	16	1950	▲ 8 × 20	18	1870	10 × 20	13	2550
		● 10 × 16	18	2000						
		10 × 16	19	2000				10 × 25	12	2800
		▲ 8 × 20	16	1950	10 × 20	13	2550	▲ 12.5 × 20	11	2800
		10 × 20	13	2550						
		▲ 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
		○ 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.8100A-1