ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

HN

Ultra Low Impedance

series

Smaller | Low Impedance | Anti-Solvent Feature

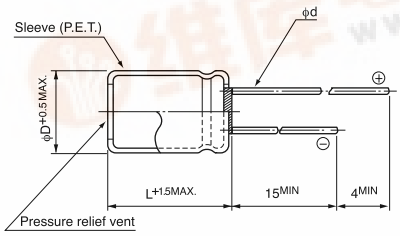
- Lower impedance than HM series.
- Adapted to the RoHS directive (2002/95/EC).

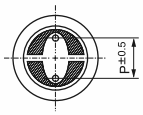
HZ ← Low Impedance — **HN** — Low Impedance → HM

Specifications

Item	Performance Characteristics				
Category Temperature	– 25 ~ +105˚C				
Rated Voltage Range	6.3 ~ 16V				
Rated Capacitance Range	330 ~ 8200μF				
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–25˚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 ±30% of initial value			
	tan δ	200% or less of initial specified value			
	Leakage current	Initial specified value or less			
Marking	Printed with gold color on black sleeve.				

Radial Lead Type





(mm)

φD	8	10	12.5	16
P	3.5	5	5	7.5
φd	0.6	0.6	0.6	0.8

• Please refer to page 21 about the end seal configulation.

Type numbering system (Example : 6.3V 1800μF)

1	2	3	4	5	6	7	8	9	10	11	12
U	H	N	0	J	1	8	2	M	P	D	

Size code
Configuration※
Capacitance tolerance (±20%)
Rated capacitance (1800μF)
Rated voltage (6.3V)
Series name
Type

※ Configuration

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

Standard ratings

Cap. (μF) \ V (Code) / Code / Item		6.3 (0J) Case size φD × L (mm)	6.3 (0J) Impedance (mΩ) MAX. 20˚C / 100kHz	6.3 (0J) Rated ripple (mArms) 105˚C / 100kHz	10 (1A) Case size φD × L (mm)	10 (1A) Impedance (mΩ) MAX. 20˚C / 100kHz	10 (1A) Rated ripple (mArms) 105˚C / 100kHz	16 (1C) Case size φD × L (mm)	16 (1C) Impedance (mΩ) MAX. 20˚C / 100kHz	16 (1C) 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
								▲ 10 × 12.5	18	1760
560	561	8 × 11.5	21	1300						
680	681				8 × 11.5	21	1300	10 × 12.5	18	1760
					▲ 10 × 12.5	18	1760	● 8 × 20	12	2220
								○ 10 × 16	11	2280
820	821	8 × 11.5	21	1300	10 × 12.5	18	1760	10 × 16	11	2280
1000	102	8 × 15	20	1700	10 × 12.5	18	1760	10 × 16	11	2280
		▲ 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
1500	152	10 × 12.5	18	1760	10 × 16	11	2280	10 × 20	10	2900
		▲ 8 × 20	12	2220	▲ 8 × 20	12	2220			
		● 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						

Please refer to page 21, 22, 23 about the formed or taped product spec.

▲ : 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.