ALUMINUM ELECTROLYTIC CAPACITORS

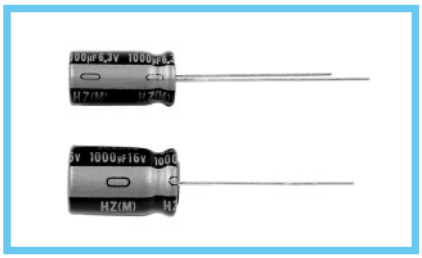
nichicon

HZ

Ultra Low Impedance,
For PC motherboard
series

Smaller | Low Impedance | Anti-Solvent Feature

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

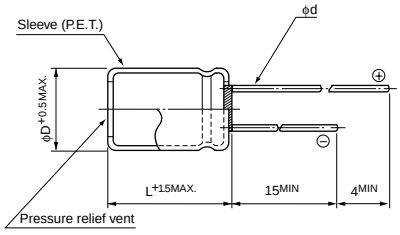


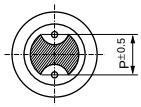
HZ ← Low Impedance — HN

Specifications

Item	Performance Characteristics				
Category Temperature	−25 to +105˚C				
Rated Voltage Range	6.3 to 16V				
Rated Capacitance Range	470 to 3300µF				
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−25˚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 ±30% of initial value tan δ: 200% or less of 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





(mm)

φD	8	10
P	3.5	5.0
φd	0.6	0.6

Type numbering system (Example : 6.3V 1800µF)

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

- 12: Size code
- 11: Configuration※
- 10: Capacitance tolerance (±20%)
- 9–7: Rated capacitance (1800µF)
- 6–5: Rated voltage (6.3V)
- 4–3: Series name
- 2–1: Type

※Configuration

φ D	Pb-free leadwire Pb-free PET sleeve
8 · 10	PM

Standard ratings

V (Code) / Item / Code / Cap. (µF)		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
470	471							▲ 10×12.5	12	2280
680	681				▲ 10×12.5	12	2288	10×12.5	12	2280
								● 8×20	9	2880
								○ 10×16	10	2960
820	821				10×12.5	12	2280	10×16	10	2960
1000	102	8×15	14	2210	10×12.5	12	2280	10×16	10	2960
		▲ 10×12.5	12	2280	● 10×16	10	2960	▲ 8×20	9	2880
					○ 8×20	9	2880	● 10×20	7	3770
1200	122	8×15	14	2210	10×16	10	2960	10×20	7	3770
1500	152	10×12.5	12	2280	10×16	10	2960	10×20	7	3770
		▲ 8×20	9	2880	▲ 8×20	9	2880			
		● 10×16	10	2960						
1800	182	10×16	10	2960	10×20	7	3770	10×25	6.5	4140
		▲ 8×20	9	2880						
2200	222	● 10×16	10	2960	10×25	6.5	4140			
		10×20	7	3770						
2700	272	10×20	7	3770						
3300	332	10×25	6.5	4690						

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.