



LARGE SIZED ALUMINUM ELECTROLYTIC CAPACITORS

UDB Series

• 125°C 3,000Hrs assured.

- Non-solvent proof.
- Wide Temperature range.
- Long Life
- For automotive and industrial machine.
- RoHS compliant.
- Halogen-free capacitors are also available.



SPECIFICATIONS

Item	Characteristics				
Rated Voltage Range	450 ~ 500V _{DC}				
Operating Temperature Range	-25 ~ +125°C				
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)				
Leakage Current	$I = 3 \sqrt{CV} (\mu A)$ Where, I : Leakage current(μA), C : Nominal capacitance(μF), V : Rated voltage(V _{DC}) (at 20°C, 5 minutes)				
Dissipation Factor(Tanδ)	<table border="1"> <tr> <td>Rated Voltage(V_{DC})</td><td>450~500</td></tr> <tr> <td>Tanδ(Max.)</td><td>0.20</td></tr> </table> (at 20°C, 120Hz)	Rated Voltage(V _{DC})	450~500	Tanδ(Max.)	0.20
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Temperature Characteristics (Max.Impedance ratio)	<table border="1"> <tr> <td>Rated Voltage(V_{DC})</td><td>450~500</td></tr> <tr> <td>Z(-25°C)/Z(+20°C)</td><td>8</td></tr> </table> (at 120Hz)	Rated Voltage(V _{DC})	450~500	Z(-25°C)/Z(+20°C)	8
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Load Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 3,000hours at 125°C. Capacitance change ≤ ±20 % of the initial value Tanδ ≤ 200 % of the initial specified value Leakage current ≤ The initial specified value				
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 125°C without voltage applied. The rated voltage shall be applied to the capacitors for a minimum of 30 minutes, at least 24 hours and not more than 48 hours before the measurements. Capacitance change ≤ ±20 % of the initial value Tanδ ≤ 200 % of the initial specified value Leakage current ≤ The initial specified value				
Others	Satisfied characteristics KS C IEC 60384-4				

RATED RIPPLE CURRENT

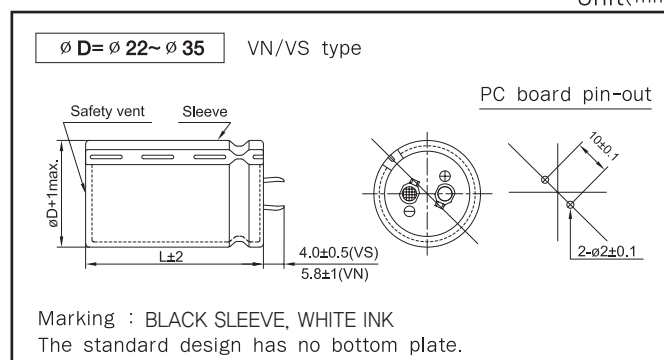
When capacitors are operated in any other condition at 120Hz, the maximum ripple current must be multiplied by the figure shown in the table.

Frequency multiplying factor

V _{DC}	Freq.(Hz)	60	120	300	1k	10k~
450~500V _{DC}		0.77	1.00	1.16	1.30	1.41

DIMENSIONS OF UDB Series

Unit(mm)





RATINGS OF UDB Series

μF ϕD	450				500			
	22	25	30	35	22	25	30	35
56					22×30 0,47			
82					22×45 0,59	25,4×35 0,61		
100	22×30 0,58				22×50 0,66	25,4×40 0,73	30×30 0,76	
120							30×35 0,78	
150	22×45 0,74					25,4×50 0,89		
180	22×50 0,75	25,4×35 0,84					30×45 0,89	35×30 0,88
220		25,4×40 0,89	30×30 0,95				30×50 1,16	35×35 1,01
270		25,4×50 0,96	30×35 1,09	35×30 1,03				35×45 1,14
330			30×45 1,18	35×35 1,22				35×50 1,31
390			30×50 1,34	35×40 1,44				
470				35×45 1,56				
560				35×50 1,83	← Case Size $\phi D \times L$(mm) ← Rated Ripple Current(Arms/125°C,120Hz)			