AHS Series

• 85℃ 2,000Hrs assured.

- Non-solvent proof.
- Hi-Fi Audio grade.
- For Audio, AMP, AVR.
- **RoHS compliant.**
- **Halogen-free capacitors are also available.**

DL → AHS

High Reliability

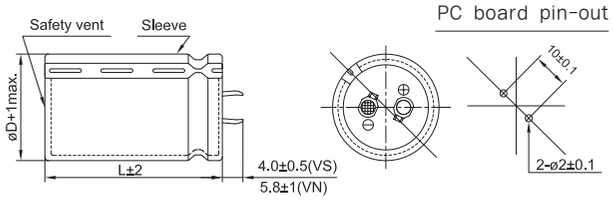
SPECIFICATIONS

Item	Characteristics
Rated Voltage Range	50 ~ 100 V_{DC}
Operating Temperature Range	-40 ~ +85℃
Capacitance Tolerance	±20%(M) (at 20℃, 120Hz)
Leakage Current	I=0.01CV or 2mA, whichever is smaller. Where, I: Leakage current (μA) C: Nominal capacitance (μF) V: Rated voltage (V_{DC}) (at 20℃, 5 minutes)
Dissipation Factor(Tanδ)	Tanδ shall not exceed the value shown in the table of RATINGS. (at 20℃, 120Hz)
Temperature Characteristics (Max.Impedance ratio)	Z(-25℃)/Z(20℃): 4 Z(-40℃)/Z(20℃): 15 (at 120Hz)
Load Life	The following specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage applied for 2,000 hours at 85℃. 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℃ after exposing them at 85℃ for 1,000 hours 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
Charge & Discharge	5,000 times (at 70℃) After this test is completed, the capacitors shall be satisfied the following specifications. Capacitance change ≦ ±20% of the initial value. Tan δ ≦ 150% of the initial specified value. Leakage current ≦ The initial specified value No visible damage and no leakage electrolyte where, Charge resistance: 2.2Ω Charge conditions: rated volt. 1(A) Discharge resistance: 100Ω Charge and discharge time: 30 sec(each)
Others	Satisfied characteristics KS C IEC 60384-4

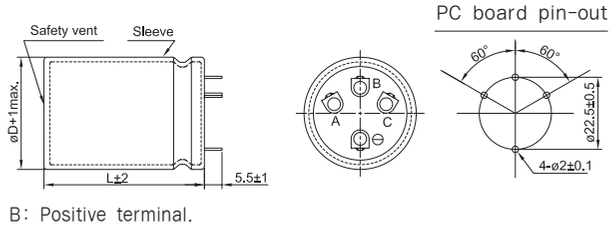
DIMENSIONS OF AHS/DL Series

Unit(mm)

ø D=ø 22~ø 35 VN/VS type



ø D=ø 35~ø 40 VR type (4 terminals)



B: Positive terminal.
A, C: Terminals not connected electrically but used for mechanical support only. (Blank Termimals)

Marking : AHS-DARK BROWN SLEEVE, GOLD INK
DL-BLACK SLEEVE, SILVER INK

The standard design has no bottom plate.

Note: Sleeve has an insulating role.

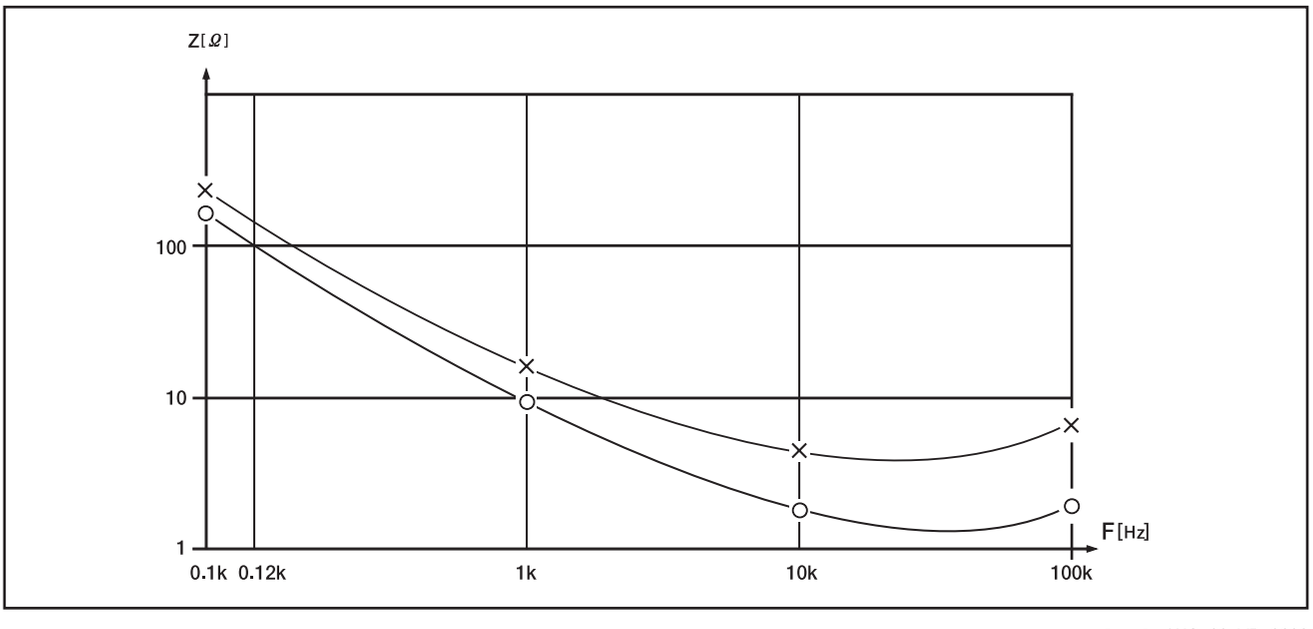
CAUTION: Please use the blank terminals for mechanical support only. The blank terminals must not be connected to a solder trace on the PC board, but be electrically isolated from negative or positive terminal.

RATINGS OF AHS Series

μF \ VDC	50			63			80			100		
3,300	25.4×30	0.20	1.84	25.4×40	0.20	1.96	25.4×50	0.15	2.39	30×60	0.15	2.68
	30×25	0.20	1.86	30×30	0.20	1.96	30×40	0.15	2.40	35×50	0.15	2.69
							35×35	0.15	2.40	40×40	0.15	2.68
4,700	25.4×40	0.20	2.34	25.4×50	0.20	2.47	25.4×60	0.15	3.01	35×60	0.15	2.98
	30×30	0.20	2.36	30×40	0.20	2.48	30×50	0.15	3.04	40×50	0.20	2.92
				35×30	0.20	2.48	35×40	0.15	3.02			
6,800	25.4×50	0.22	2.83	30×50	0.22	3.02	30×60	0.15	3.35	40×60	0.20	3.68
	30×40	0.22	2.85	35×40	0.22	3.00	35×50	0.15	3.35			
	35×35	0.25	2.67				40×40	0.20	3.34			
8,200	30×50	0.25	3.11	30×60	0.25	3.27	35×60	0.20	3.87			
	35×40	0.25	3.09	35×50	0.25	3.28	40×50	0.20	3.86			
				40×40	0.25	3.28						
10,000	30×50	0.25	3.43	35×60	0.25	3.82	40×60	0.20	4.46			
	35×40	0.25	3.41	40×50	0.25	3.81						
12,000	30×60	0.25	3.66	35×60	0.25	4.19						
	35×50	0.30	3.62	40×50	0.25	4.18						
	40×40	0.30	3.62									
15,000	35×60	0.30	4.27	40×60	0.30	4.46						
	40×50	0.30	4.26									
22,000	40×60	0.30	5.40									

Rated Ripple Current (Arms/85℃, 120Hz)
Tanδ(Max.)
Case Size ØD×L(mm)

Frequency vs. Impedance Graph



○ - ○ AHS 80 VR 8200
× - × DL 80 VR 8200