AHS Series

• 85℃ 2,000Hrs assured.

- Non-solvent proof.
- For Hi-Fi Audio.
- RoHS compliant.
- Halogen-free capacitors are also available.

AH → AHS

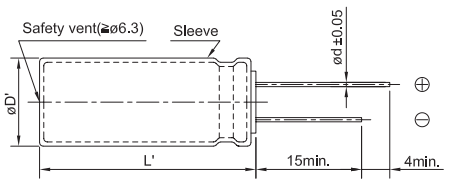
Downsized

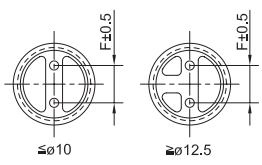
SPECIFICATIONS

Item	Characteristics
Rated Voltage Range	10 ~ 100 V_{DC}
Operating Temperature Range	-40 ~ +85℃
Capacitance Tolerance	±20%(M) (at 20℃, 120Hz)
Leakage Current	I=0.03CV (μA) or 4μA whichever is greater. Where, I: Max. Leakage current(μA) C: Nominal capacitance (μF) V: Rated Voltage (V_{DC}) (at 20℃, 1 minute)
Dissipation Factor(Tanδ)	Rated Voltage(V_{DC}): 10 / 16 / 25 / 35 / 50 / 63 / 100 Tanδ(Max.): 0.19 / 0.16 / 0.14 / 0.12 / 0.10 / 0.09 / 0.08 When the capacitance exceeds 1,000μF, 0.02 shall be added every 1,000μF increase. (at 20℃, 120Hz)
Temperature Characteristics (Max. Impedance ratio)	Rated Voltage(V_{DC}): 10 / 16 / 25 / 35~100 Z(-25℃)/Z(20℃): 3 / 2 / 2 / 2 Z(-40℃)/Z(20℃): 8 / 6 / 4 / 3 (at 120Hz)
Load Life	The following specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage is 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
Others	Satisfied characteristics KS C IEC 60384-4

DIMENSIONS OF AHS Series

Unit(mm)





Marking : DARK BROWN SLEEVE, GOLD INK

øD	5	6.3	8	10	12.5	16	18
ød	0.5	0.5	0.6	0.6	0.8	0.8	0.8
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
øD'	øD+0.5 max.						
L'	L+1.5 max.			L+2.0 max.			

RATINGS OF AHS Series

μF \ VDC	10		16		25		35		50	
1									5×11	14
2.2									5×11	21
3.3									5×11	26
4.7							5×11	28	5×11	31
10					5×11	39	5×11	41	5×11	45
22	5×11	49	5×11	54	5×11	58	5×11	61	5×11	66
33	5×11	59	5×11	66	5×11	70	5×11	75	6.3×11	93
47	5×11	71	5×11	78	5×11	84	6.3×11	103	6.3×11	111
100	5×11	103	6.3×11	132	6.3×11	140	8×11.5	171	8×11.5	185
220	6.3×11	177	8×11.5	224	8×11.5	237	10×12.5	299	10×16	357
330	8×11.5	248	8×11.5	274	10×12.5	343	10×16	404	10×20	473
470	8×11.5	296	10×12.5	386	10×16	451	10×20	523	12.5×20	626
1,000	10×16	538	10×20	638	12.5×20	746	12.5×25	860	16×25	1,017
2,200	12.5×20	920	12.5×25	1,087	16×25	1,262	16×31.5	1,413	18×35.5	1,621
3,300	12.5×25	1,180	16×25	1,411	16×31.5	1,586	18×35.5	1,776		
4,700	16×25	1,458	16×31.5	1,678	18×35.5	2,120				
6,800	16×31.5	1,780	18×35.5	2,016						
10,000	18×35.5	2,134								

Rated Ripple Current (mArms/85℃, 120Hz)

Case Size øD×L(mm)

μF \ VDC	63		100	
1			5×11	16
2.2			5×11	23
3.3			5×11	28
4.7	5×11	34	5×11	34
10	5×11	49	6.3×11	56
22	6.3×11	83	8×11.5	95
33	6.3×11	102	10×12.5	137
47	8×11.5	136	10×16	181
100	10×12.5	239	12.5×20	316
220	10×20	423	16×25	564
330	12.5×20	575	16×25	691
470	12.5×25	745	16×31.5	891
1,000	16×31.5	1,182		