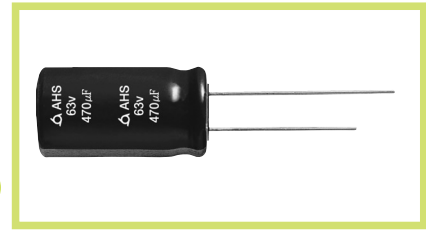


AHS Series

• 85°C 2,000Hrs assured.

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



SPECIFICATIONS

Item	Characteristics																
Rated Voltage Range	10 ~ 100 V _{DC}																
Operating Temperature Range	-40 ~ +85°C																
Capacitance Tolerance	±20%(M) (at 20°C, 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°C, 1 minute)																
Dissipation Factor(Tan δ)	<table border="1"> <tr> <td>Rated Voltage(V_{DC})</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>100</td> </tr> <tr> <td>Tan δ(Max.)</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.09</td> <td>0.08</td> </tr> </table> <p>When the capacitance exceeds 1,000µF, 0.02 shall be added every 1,000µF increase. (at 20°C, 120Hz)</p>	Rated Voltage(V _{DC})	10	16	25	35	50	63	100	Tan δ(Max.)	0.19	0.16	0.14	0.12	0.10	0.09	0.08
Rated Voltage(V _{DC})	10	16	25	35	50	63	100										
Tan δ(Max.)	0.19	0.16	0.14	0.12	0.10	0.09	0.08										
Temperature Characteristics (Max. Impedance ratio)	<table border="1"> <tr> <td>Rated Voltage(V_{DC})</td> <td>10</td> <td>16</td> <td>25</td> <td>35~100</td> </tr> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z(-40°C)/Z(20°C)</td> <td>8</td> <td>6</td> <td>4</td> <td>3</td> </tr> </table> <p>(at 120Hz)</p>	Rated Voltage(V _{DC})	10	16	25	35~100	Z(-25°C)/Z(20°C)	3	2	2	2	Z(-40°C)/Z(20°C)	8	6	4	3	
Rated Voltage(V _{DC})	10	16	25	35~100													
Z(-25°C)/Z(20°C)	3	2	2	2													
Z(-40°C)/Z(20°C)	8	6	4	3													
Load Life	<p>The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 2,000 hours at 85°C.</p> <p>Capacitance change ≤ ±20% of the initial value Tan δ ≤ 200% of the initial specified value Leakage current ≤ The initial specified value</p>																
Shelf Life	<p>The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them at 85°C. 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.</p> <p>Capacitance change ≤ ±20% of the initial value Tan δ ≤ 200% of the initial specified value Leakage current ≤ The initial specified value</p>																
Others	Satisfied characteristics KS C IEC 60384-4																

DIMENSIONS OF AHS Series

Unit(mm)

Marking : DARK BROWN SLEEVE, GOLD INK

φD	5	6.3	8	10	12.5	16	18
φd	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
φD'	φD + 0.5 max.						
L'	L + 1.5 max.			L + 2.0 max.			

AHS Series

RATINGS OF AHS Series

μF \ V _{DC}	10		16		25		35		50	
	1									5×11
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 (mA rms/85°C, 120Hz)
 Case Size $\varnothing D \times L$ (mm)

μF \ V _{DC}	63		100	
	1			5×11
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		

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