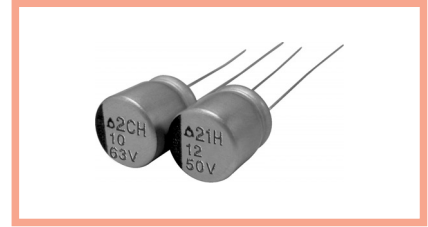
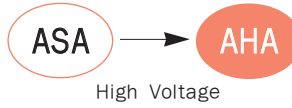


reAlcap™ AHA Series

- High Voltage(16~100V)
- High Ripple Current
- Endurance 105°C, 2,000~5,000hrs



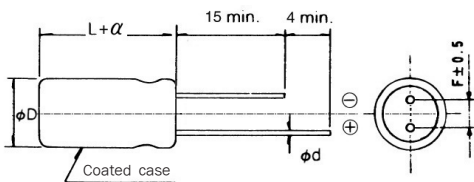
SPECIFICATIONS

Item	Characteristics												
Category temperature range	-55 to +105°C												
Rated voltage range	16 to 100V _{DC}												
Surge voltage	Rated Voltage(WV)	16 20 25 35 50 63 80 100											
	Surge Voltage(SV)	18.4 23 29 40 57.5 72.5 92 115											
Capacitance tolerance	±20%(M) (at 20°C, 120Hz)												
Tangent of loss angle	Shall not exceed the value in Ratings of AHA series. (at 20°C, 120Hz)												
Leakage Current ※ 1	Shall not exceed the value in Ratings of AHA series. (at 20°C, 2 minutes)												
ESR	Shall not exceed the value in Ratings of AHA series. (at 20°C, 100kHz)												
Impedance Ratio (Characteristics at low temp.)	Impedance	Ratio											
	Z(-25°C)/Z(+20°C)	≤ 1.15											
	Z(-55°C)/Z(+20°C)	≤ 1.25											
(at 100kHz)													
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for the specified time at 105°C.												
	Capacitance change ≤ ±20% of the initial value Tan δ ≤ 150% of the initial specified value ESR ≤ 150% of the initial specified value Leakage current ≤ The initial specified value	<table border="1"> <thead> <tr> <th>Voltage(V)</th> <th>Case Size</th> <th>Time(Hrs)</th> </tr> </thead> <tbody> <tr> <td rowspan="2">16~80</td> <td>6.3×6, 8×7</td> <td>3,000</td> </tr> <tr> <td>8×11.5, 10×10, 10×12.5</td> <td>5,000</td> </tr> <tr> <td>100</td> <td>8×11.5, 10×10, 10×12.5</td> <td>2,000</td> </tr> </tbody> </table>		Voltage(V)	Case Size	Time(Hrs)	16~80	6.3×6, 8×7	3,000	8×11.5, 10×10, 10×12.5	5,000	100	8×11.5, 10×10, 10×12.5
Voltage(V)	Case Size	Time(Hrs)											
16~80	6.3×6, 8×7	3,000											
	8×11.5, 10×10, 10×12.5	5,000											
100	8×11.5, 10×10, 10×12.5	2,000											
Bias Humidity	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjecting them to the DC rated voltage at 60°C, 90~95%RH for 1000 hours.												
	Capacitance change ≤ ±20% of the initial value Tan δ ≤ 150% of the initial specified value ESR ≤ 150% of the initial specified value Leakage current ≤ The initial specified value												

※ 1. If any doubt arises, remeasure the leakage current after following voltage treatment.(Voltage treatment : Applying rated voltage for 120minutes at 105°C)

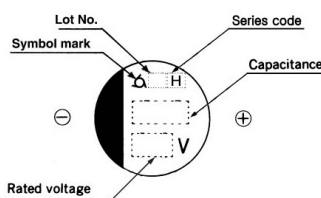
DIMENSIONS

Coating Case Type



	Unit(mm)				
∅D(+0.5max.)	6.3	8.0	8.0	10.0	10.0
L	6.0	7.0	11.5	10.0	12.5
α	0.5				
∅d(±0.05)	0.45	0.45	0.6	0.6	0.6
F(±0.5)	2.5	3.5	3.5	5.0	5.0

MARKING



RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Freq.(Hz)	120 ≤ f < 1k	1k ≤ f < 10k	10k ≤ f < 100k	100k ≤ f < 500k
Factor	0.05	0.3	0.7	1

RATINGS OF AHA Series

Case Size (\varnothing D x L) (mm)	Rated Voltage (V)	Rated Capacitance (μ F)	ESR(m Ω) (at 100kHz)	Rated Ripple Current(mArms /105°C, 100kHz)	Tangent of loss angle	Leakage Current (μ A)
6.3 x 6	16	56	40	1,790	0.10	179
	20	47	40	1,790	0.10	188
	25	33	45	1,690	0.10	165
	35	18	47	1,650	0.10	126
	50	12	50	1,600	0.10	120
	63	10	60	1,460	0.10	126
8 x 7	16	82	35	2,350	0.10	262
	20	68	35	2,350	0.10	272
	25	56	40	2,200	0.10	280
	35	27	42	2,147	0.10	189
	50	22	45	2,070	0.10	220
	63	12	50	1,960	0.10	151
8 x 11.5	16	270	25	3,400	0.10	864
	20	220	25	3,400	0.10	880
	25	150	30	3,100	0.10	750
	35	82	35	2,870	0.10	574
	50	56	40	2,690	0.10	560
	63	39	45	2,530	0.10	491
	80	33	50	2,400	0.10	528
	100	15	60	2,190	0.10	300
10 x 10	16	470	25	3,650	0.10	1504
	20	330	25	3,650	0.10	1320
	25	270	30	3,330	0.10	1350
	35	120	35	3,090	0.10	840
	50	82	40	2,890	0.10	820
	63	68	45	2,720	0.10	857
	80	47	50	2,580	0.10	752
	100	22	60	2,360	0.10	440
10 x 12.5	16	560	23	4,180	0.10	1792
	20	470	23	4,180	0.10	1880
	25	330	28	3,790	0.10	1650
	35	150	33	3,490	0.10	1050
	50	120	37	3,300	0.10	1200
	63	82	42	3,090	0.10	1033
	80	56	45	2,990	0.10	896
	100	33	55	2,700	0.10	660