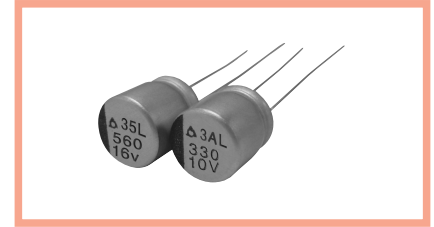
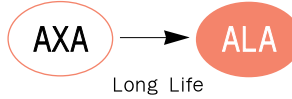


reALcap™ ALA Series

- Super Low ESR, Large Capacitance
- High Ripple Current
- -55°C ~ +105°C
- Endurance 105°C, 5,000hrs



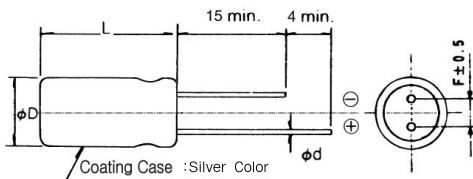
SPECIFICATIONS

Item	Characteristics				
Category temperature range	-55 to +105℃				
Rated voltage range	4 to 16V _{DC}				
Surge voltage	Rated Voltage(WV)	4	6.3	10	16
	Surge Voltage(SV)	5.2	8.2	11.5	18.4
Capacitance tolerance	±20%(M) (at 20℃, 120Hz)				
Tangent of loss angle	Shall not exceed the value in Ratings of ALA series. (at 20℃, 120Hz)				
Leakage Current ※ 1	Shall not exceed the value in Ratings of ALA series. (at 20℃, 2 minutes)				
ESR	Shall not exceed the value in Ratings of ALA series. (at 20℃, 100kHz)				
Impedance Ratio (Characteristics at low temp.)	Impedance	Ratio			
	Z(-55℃)/Z(+20℃)	≤ 1.25			
	Z(+105℃)/Z(+20℃)	≤ 1.25		(at 100kHz)	
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage is applied for 5,000 hours at 105℃. 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				
Blas Humidity	The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjecting them to the DC rated voltage at 60℃, 90~95%RH for 1,000 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				
Surge voltage	The following specifications shall be satisfied when the capacitors are restored to +20℃ after the surge voltage is at a cycle of 360seconds which consist charge for 30 seconds and discharge for 330 seconds, for 1000 cycles at 105℃. 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				

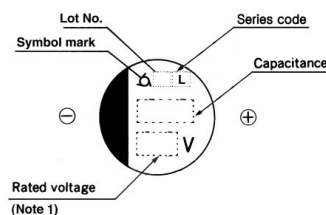
※ 1: If any doubt arises, remeasure the leakage current after following voltage treatment. (Voltage treatment: Applying rated voltage for 120minutes at 105°C)

DIMENSIONS

Coating Case Type



MARKING



Note 1 : 6.3WV is marked by 6V

Unit(mm)

φD(+0.5max.)	8.0	10.0
L	11.5	12.5
Lmax.	11.5max.	12.5max.
φd(±0.05)	0.6	0.6
F(±0.5)	3.5	5.0

RATINGS OF ALA Series

Case Code	Rated Voltage (V)	Rated Capacitance(μ F)	ESR(m Ω) (at 100kHz)	Rated Ripple Current(mArms) at 100kHz	Tangent of loss angle	Leakage Current (μ A)
8×11.5	16	560	14	4,630	0.10	1,792
	16	180	20	3,640	0.10	576
	10	330	17	3,950	0.10	660
	6.3	470	15	4,210	0.10	592
	4	560	13	4,520	0.10	448
10×12.5	16	330	16	4,720	0.10	792
	10	560	13	5,230	0.10	840
	6.3	820	12	5,440	0.10	775