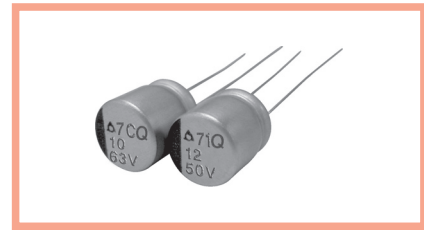
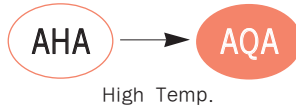


reAlcap™ AQA Series

- High Voltage(50~80V)
- Wide Temperature range
- Endurance 125°C, 3,000hrs



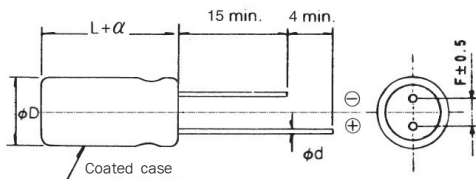
SPECIFICATIONS

Item	Characteristics
Category temperature range	-55 to +125°C
Rated voltage range	50 to 80V _{DC}
Surge voltage	Rated Voltage(WV) 50 63 80
	Surge Voltage(SV) 57.5 72.5 92
Capacitance tolerance	±20%(M) (at 20°C, 120Hz)
Tangent of loss angle	Shall not exceed the value in Ratings of AQA series. (at 20°C, 120Hz)
Leakage Current * 1	Shall not exceed the value in Ratings of AQA series. (at 20°C, 2 minutes)
ESR	Shall not exceed the value in Ratings of AQA series. (at 20°C, 100kHz)
Impedance Ratio (Characteristics at low temp.)	Impedance Ratio
	Z(-55°C)/Z(+20°C) ≤ 1.25
	Z(+105°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 3,000 hours at 125°C. Capacitance change ≤ ±20% of the initial value Tan δ ≤ 200% of the initial specified value ESR ≤ 200% of the initial specified value Leakage current ≤ The initial specified value
Bias Humidity	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjecting thwm to the DC rated voltage at 60°C, 90~95%RH for 500 hours. Capacitance change ≤ ±20% of the initial value Tan δ ≤ 200% of the initial specified value ESR ≤ 200% 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°C 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 125°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

* 1 : if any doubt arises, remeasure the leakage current after following voltage treatment.(Voltage treatment : Applying rated voltage for 120minutes at 125°C)

DIMENSIONS

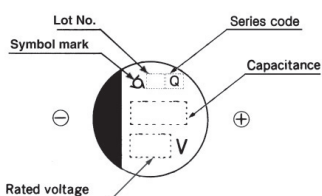
Coating Case Type



Unit(mm)

∅ D(+0.5max.)	8.0	8.0	10.0
L	7.0	11.5	12.5
α		0.5	
∅ d(±0.05)	0.45	0.6	0.6
F(±0.5)	3.5	3.5	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



CONDUCTIVE POLYMER ALUMINUM SOLID CAPACITORS

RATINGS OF AQA Series

Case Size (\varnothing D × L) (mm)	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 × 7	50	33	45	1,300	0.10	230
	63	22	50	1,100	0.10	277
8 × 11.5	50	68	35	2,800	0.10	680
	63	47	40	2,500	0.10	592
	80	27	45	1,600	0.10	432
10 × 10	50	100	25	2,950	0.10	1,000
	63	68	30	2,600	0.10	856
	80	39	35	1,700	0.10	624