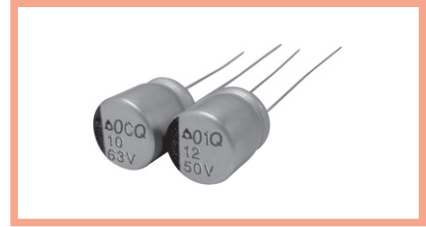
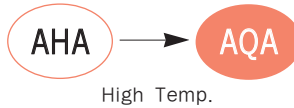


reALcap™ AQA Series

- High Voltage(50~80V)
- Wide Temperature range
- Endurance 125°C, 4,000hrs



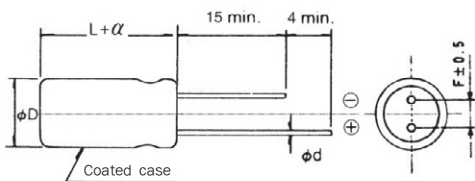
SPECIFICATIONS

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		(at 100kHz)
	Z(-25°C)/Z(+20°C)	≤ 1.15		
	Z(-55°C)/Z(+20°C)	≤ 1.25		
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 4,000 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		

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

DIMENSIONS

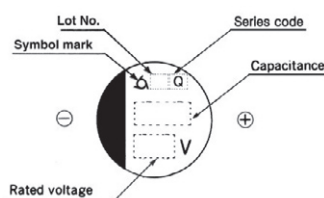
Coating Case Type



Unit(mm)

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

Case Size (\varnothing D x L) (mm)	Rated Voltage (V)	Rated Capacitance (μ F)	ESR(m Ω) (at 100kHz)	Rated Ripple Current(mArms /125°C, 100kHz)	Tangent of loss angle	Leakage Current (μ A)
8 x 7	50	12	45	960	0.10	120
	63	10	50	910	0.10	126
8 x 11.5	50	47	40	1,500	0.10	470
	63	33	45	1,410	0.10	416
	80	15	50	1,340	0.10	240
10 x 10	50	68	40	1,610	0.10	680
	63	47	45	1,520	0.10	592
	80	22	50	1,440	0.10	352
10 x 12.5	50	82	37	1,740	0.10	820
	63	68	42	1,630	0.10	857
	80	33	45	1,580	0.10	528