

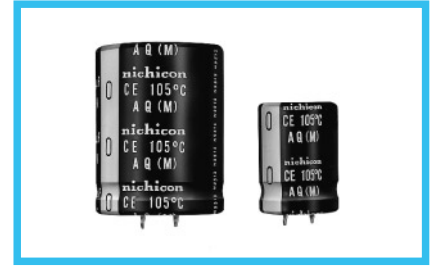
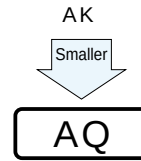
AQ

Snap-in Terminal Type, 105°C Permissible Abnormal Voltage,
Smaller-sized
(692 type) series



Smaller

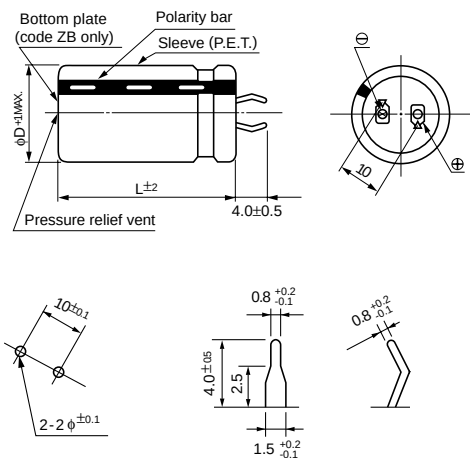
- Withstanding 2000 hours application of rated ripple current of 105°C.
- Extended voltage range at 200V, 220V and 400V.
- Smaller case sizes and higher ripple current than AK series.
- Improved safety features for abnormally excessive voltage.
- Ideally suited for the equipment used at voltage fluctuating area.
- Compliant to the RoHS directive (2002/95/EC).



Specifications

Item	Performance Characteristics				
Category Temperature Range	-25 to +105°C				
Rated Voltage Range	200・220・400V				
Rated Capacitance Range	33 to 1500μF				
Capacitance Tolerance	±20% at 120Hz, 20°C				
Leakage Current	$I \leq 3\sqrt{CV}$ (μA) (After 5 minutes' application of rated voltage) [C : Rated Capacitance (μF) V : Voltage (V)]				
Tangent of loss angle (tan δ)	0.20MAX. 120Hz, 20°C				
Stability at Low Temperature	Rated voltage(V)		200・220	400	Measurement frequency : 120Hz
	Impedance ratio (MAX)	Z - 25°C/Z+20°C	8	8	
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after D.C. bias plus rated ripple current is applied for 2000 hours at 105°C, the peak voltage shall not exceed the rated voltage.			Capacitance change	Within ±20% of the initial capacitance value
				tan δ	200% or less than the initial specified value
				Leakage current	Less than or equal to the initial specified value
Shelf Life	After storing the capacitors under no load at 105°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they shall meet the requirements listed at right.			Capacitance change	Within ±15% of the initial capacitance value
				tan δ	150% or less than the initial specified value
				Leakage current	Less than or equal to the initial specified value
Safety Performance	The pressure relief vent will operate in normal conditions, with no dangerous conditions such as flames, ignitions or dispersion of pieces of the capacitor and / or case.				
	Rating			Test conditions	
	Voltage (V)	Rated Capacitance (μF)		Limited DC current	Test voltage
	200	C < 330		4 A	300VDC and 375VDC
		330 ≤ C < 470		5 A	
		470 ≤ C		7 A	
	220	C < 330		4 A	320VDC and 405VDC
		330 ≤ C < 470		5 A	
		470 ≤ C		7 A	
	400	C < 100		2 A	500VDC and 600VDC
		100 ≤ C < 220		4 A	
		220 ≤ C		7 A	
Marking	Printed with white color letter on black sleeve				

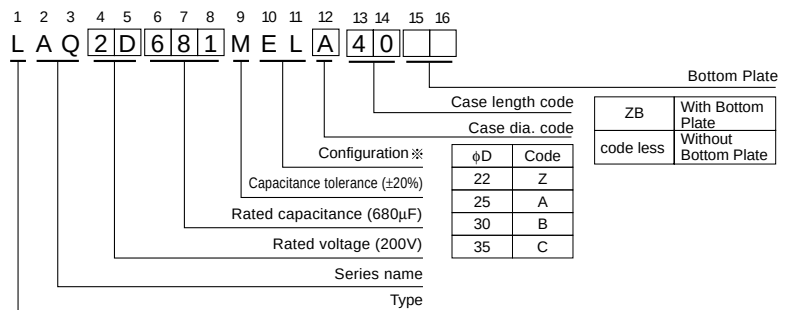
Drawing



(PC board hole dimensions)

(Terminal dimensions)

Type numbering system (Example : 200V 680μF)



※ Please contact to us if other configurations are required.

Minimum order quantity : 50pcs.

● Dimension table in next page.

■ Dimensions

Cap.(μF)	Code	V(Code) φD	200V (2D)				220V (2P)				400V (2G)			
			22	25	30	35	22	25	30	35	22	25	30	35
33	330										22×25 0.25			
39	390										22×25 0.30			
47	470										22×25 0.35			
56	560										22×25 0.45			
68	680										22×25 0.51			
82	820										22×30 0.58	25×25 0.58		
100	101						22×20 0.50				22×30 0.66	25×25 0.66		
120	121						22×25 0.60				22×35 0.76	25×30 0.76	30×25 0.76	
150	151						22×25 0.65	25×20 0.65			22×40 0.85	25×35 0.85	30×25 0.85	
180	181		22×25 0.70	25×20 0.70			22×25 0.70	25×25 0.70				25×40 0.95	30×30 0.95	35×25 0.95
220	221		22×25 0.90				22×30 0.90	25×25 0.90	30×20 0.90			25×45 1.24	30×35 1.24	35×30 1.24
270	271		22×25 1.00				22×35 1.00	25×30 1.00	30×25 1.00	35×20 1.00			30×40 1.30	35×35 1.30
330	331		22×30 1.20	25×25 1.20			22×40 1.20	25×30 1.20	30×25 1.20	35×25 1.20			30×45 1.47	35×35 1.47
390	391		22×35 1.35	25×30 1.35			22×45 1.35	25×35 1.35	30×30 1.35	35×25 1.35				35×40 1.59
470	471		22×40 1.45	25×30 1.45	30×25 1.45			25×40 1.45	30×30 1.45	35×25 1.45				35×45 1.87
560	561		22×45 1.60	25×35 1.60	30×30 1.60			25×45 1.60	30×35 1.60	35×30 1.60				
680	681		22×50 1.75	25×40 1.75	30×30 1.75	35×25 1.75			30×40 1.75	35×35 1.75				
820	821			25×50 2.11	30×35 2.11	35×30 2.11			30×45 2.11	35×40 2.11				
1000	102				30×45 2.40	35×35 2.40				35×45 2.40				
1200	122				30×50 2.65	35×40 2.65								
1500	152					35×45 3.08								
Case size φD×L (mm)														
Rated ripple														

Rated ripple current (Arms) at 105°C 120Hz

● Frequency coefficient of rated ripple current

Frequency (Hz)	50	60	120	1k	10k or more
200-220V	0.85	0.88	1.00	1.15	1.20
400V	0.88	0.90	1.00	1.10	1.15