ALUMINUM ELECTROLYTIC CAPACITORS

LAS

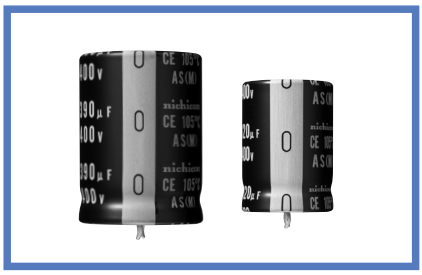
Snap-in Terminal Type, 105°C Permissible Abnormal Voltage, Smaller-sized

Smaller

Expanded

- Withstanding 2000 hours application of rated ripple current of 105°C.
- Addition of 450V rated voltage.
- Smaller case sizes and higher ripple current than LAQ.
- Improved safety features for abnormally excessive voltage.
- Ideally suited for the equipment used at voltage fluctuating area.
- Compliant to the RoHS directive (2011/65/EU).

LAQ
Smaller
LAS



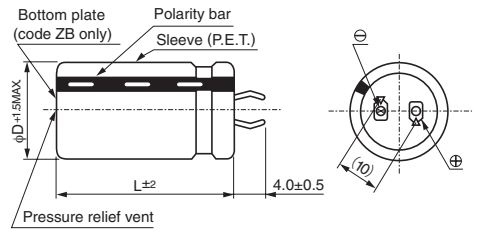
■Specifications

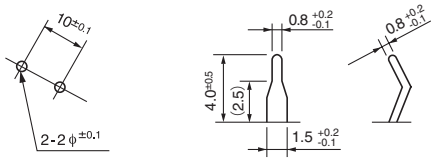
Item	Performance Characteristics
Category Temperature Range	–25 to +105°C
Rated Voltage Range	400・420・450V
Rated Capacitance Range	56 to 390μF
Capacitance Tolerance	±20% at 120Hz, 20°C
Leakage Current	≦ $3\sqrt{CV}$ (μA) (After 5 minutes' application of rated voltage) [C : Rated Capacitance (μF) V : Voltage (V)]
Tangent of loss angle (tan δ)	0.20MAX. 120Hz at 20°C
Stability at Low Temperature	Rated voltage(V) | 400・420・450 ; Impedance ratio (MAX) | Z – 25°C/Z+20°C | 8 ; Measurement frequency : 120Hz
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
400	C < 100	2 A	500VDC and 600VDC
	100 ≦ C < 220	4 A	
	220 ≦ C	7 A	
420	C < 100	2 A	520VDC and 630VDC
	100 ≦ C < 220	4 A	
	220 ≦ C	7 A	
450	C < 100	2 A	550VDC and 675VDC
	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 : 400V 100μF)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L	A	S	2	G	1	0	1	M	E	L	Z	2	5		

Bottom Plate
Case length code
Case dia. code
Configuration※
Capacitance tolerance (±20%)
Rated capacitance (100μF)
Rated voltage (400V)
Series name
Type

ZB	With Bottom Plate
code less	Without Bottom Plate

φD	Code
22	Z
25	A
30	B
35	C

※Please contact to us if other configurations are required.

●Frequency coefficient of rated ripple current

Frequency (Hz)		50	60	120	1 k	10k or more
Coeff.	400 · 420 · 450V	0.88	0.9	1.00	1.10	1.15

Minimum order quantity : 50pcs.

● Dimension table in next page.

Design, Specifications are subject to change without notice.

NICHICON CORPORATION

ALUMINUM ELECTROLYTIC CAPACITORS

LAS

■Dimensions

400V(2G)				
Cap. (μF)	Size φD × L(mm)	Ripple (mArms)	Leakage Current (mA)	Code
56	22 × 20	450	0.44	LAS2G560MELZ20
68	22 × 20	510	0.49	LAS2G680MELZ20
82	22 × 25	640	0.54	LAS2G820MELZ25
100	22 × 25	680	0.60	LAS2G101MELZ25
120	22 × 30	760	0.65	LAS2G121MELZ30
	25 × 25	760	0.65	LAS2G121MELA25
150	22 × 35	880	0.73	LAS2G151MELZ35
	25 × 30	880	0.73	LAS2G151MELA30
	30 × 25	880	0.73	LAS2G151MELB25
180	22 × 40	950	0.80	LAS2G181MELZ40
	25 × 30	950	0.80	LAS2G181MELA30
	30 × 25	950	0.80	LAS2G181MELB25
220	25 × 35	1240	0.88	LAS2G221MELA35
	30 × 30	1240	0.88	LAS2G221MELB30
270	25 × 40	1300	0.98	LAS2G271MELA40
	30 × 35	1300	0.98	LAS2G271MELB35
330	30 × 35	1440	1.08	LAS2G331MELB35
390	30 × 40	1550	1.18	LAS2G391MELB40

420V(W6)				
Cap. (μF)	Size φD × L(mm)	Ripple (mArms)	Leakage Current (mA)	Code
56	22 × 25	380	0.46	LASW6560MELZ25
68	22 × 25	450	0.50	LASW6680MELZ25
82	22 × 30	640	0.55	LASW6820MELZ30
	25 × 25	640	0.55	LASW6820MELA25
100	22 × 30	690	0.61	LASW6101MELZ30
	25 × 25	690	0.61	LASW6101MELA25
120	22 × 35	750	0.67	LASW6121MELZ35
	25 × 30	750	0.67	LASW6121MELA30
	30 × 25	750	0.67	LASW6121MELB25
150	22 × 40	820	0.75	LASW6151MELZ40
	25 × 35	820	0.75	LASW6151MELA35
	30 × 25	820	0.75	LASW6151MELB25
180	25 × 40	900	0.82	LASW6181MELA40
	30 × 30	900	0.82	LASW6181MELB30
	35 × 25	900	0.82	LASW6181MELC25
220	25 × 45	1000	0.91	LASW6221MELA45
	30 × 35	1000	0.91	LASW6221MELB35
	35 × 30	1000	0.91	LASW6221MELC30
270	30 × 40	1100	1.01	LASW6271MELB40
	35 × 30	1100	1.01	LASW6271MELC30
330	30 × 45	1200	1.11	LASW6331MELB45
	35 × 35	1200	1.11	LASW6331MELC35
390	35 × 45	1300	1.21	LASW6391MELC45

450V (2W)				
Cap. (μF)	Size φD × L(mm)	Ripple (mArms)	Leakage Current (mA)	Code
68	22 × 25	600	0.52	LAS2W680MELZ25
82	22 × 30	650	0.57	LAS2W820MELZ30
	25 × 25	610	0.57	LAS2W820MELA25
100	22 × 30	710	0.63	LAS2W101MELZ30
	25 × 25	710	0.63	LAS2W101MELA25
120	22 × 35	770	0.69	LAS2W121MELZ35
	25 × 30	760	0.69	LAS2W121MELA30
	30 × 25	770	0.69	LAS2W121MELB25
150	25 × 35	880	0.77	LAS2W151MELA35
	30 × 25	880	0.77	LAS2W151MELB25
180	30 × 30	970	0.85	LAS2W181MELB30
220	30 × 35	1300	0.94	LAS2W221MELB35
270	35 × 30	1300	1.04	LAS2W271MELC30
330	35 × 35	1400	1.15	LAS2W331MELC35

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

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