PCB Snap-In Type Capacitors Series LH7

Large capacitance low-profile capacitors

- **Can be mounted directly on the printed circuit board without using a mounting clamp.**

Large capacitance, Low profile

LH7 ⇦ (LA3)

Marking color : White print on a black sleeve

Specifications

Item	Performance
Category temperature range (˚C)	–40 to +85
Tolerance at rated capacitance (%)	±20 (20˚C,120Hz)
Leakage current (μA)	Less than 0.02CV or 3mA whichever is smaller(after 5 minutes) C: Rated capacitance(μF); V: Rated voltage(V) (20˚C)

Tangent of loss angle (tanδ)

tanδ (max.)

Rated capacitance(μF) \ Rated voltage (V)	16	25	35	50	63	80	100	160	180	200
470, 560	—	—	—	—	—	—	—	—	0.10	0.10
680, 820	—	—	—	—	—	—	—	0.10	—	—
1000	—	—	—	—	—	—	—	—	—	—
2200	—	—	—	—	—	0.10	0.10	—	—	—
3300	—	—	—	—	0.08	0.12	—	—	—	—
4700	—	—	—	0.10	0.12	—	—	—	—	—
6800	—	—	0.15	0.15	—	—	—	—	—	—
10000	—	0.18	—	—	—	—	—	—	—	—
15000	0.25	—	—	—	—	—	—	—	—	—

(20˚C,120Hz)

Characteristics at high and low temperature

Rated voltage (V)		16	25	35	50	63	80	100	160	180	200
Impedance ratio (max.)	Z–25˚C / Z+20˚C	6	3	3	3	3	3	3	2	2	2
	Z–40˚C / Z+20˚C	12	6	6	5	5	5	5	4	4	4

(120Hz)

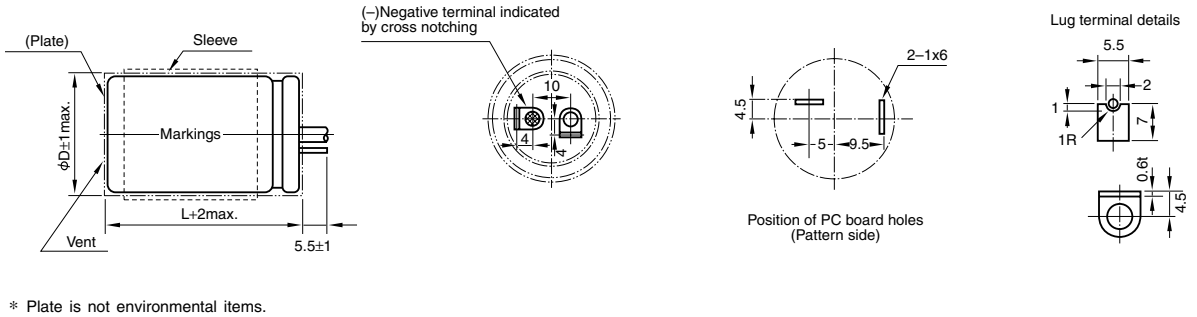
Endurance (85˚C) (Applied ripple current)

Test time	1000 hours
Leakage current	The initial specified value or less
Percentage of capacitance change	Within ±20% of initial value
Tangent of the loss angle	200% or less of the initial specified value

Shelf life (85˚C)	Test time : 1000 hours; other items are the same as those for the endurance. Voltage application treatment
Applicable standards	JIS C5101-1, -4 1998 (IEC 60384-1 1992, -4 1985)

Outline Drawing, Terminal Configuration

Unit: mm



∗ Plate is not environmental items.

∗ There are overseas factory product only on this page.

NOTE
Design, Specifications are subject to change without notice.
Ask factory for technical specifications before purchase and/or use.

Standard Ratings

Rated voltage (V) / Item / Rated capacitance(μF)	16		25	
	Case	Rated ripple current	Case	Rated ripple current
	ø DxL(mm)	Arms	ø DxL(mm)	Arms
10000	—	—	35x30	4.6
15000	35x30	4.7	—	—

Rated voltage (V) / Item / Rated capacitance(μF)	35		50		63		80	
	Case	Rated ripple current	Case	Rated ripple current	Case	Rated ripple current	Case	Rated ripple current
	ø DxL(mm)	Arms	ø DxL(mm)	Arms	ø DxL(mm)	Arms	ø DxL(mm)	Arms
2200	—	—	—	—	—	—	35x30	3.0
3300	—	—	—	—	35x30	4.0	35x35	3.4
4700	—	—	35x30	4.3	35x35	4.0	—	—
6800	35x30	4.2	35x35	4.3	—	—	—	—

Rated voltage (V) / Item / Rated capacitance(μF)	100		160		180		200	
	Case	Rated ripple current	Case	Rated ripple current	Case	Rated ripple current	Case	Rated ripple current
	ø DxL(mm)	Arms	ø DxL(mm)	Arms	ø DxL(mm)	Arms	ø DxL(mm)	Arms
470	—	—	—	—	35x30	2.1	35x30	2.1
560	—	—	—	—	35x35	2.3	35x35	2.3
680	—	—	35x30	2.4	—	—	—	—
820	—	—	35x35	2.8	—	—	—	—
2200	35x35	3.1	—	—	—	—	—	—

(Note) Rated ripple current : 85˚C, 120Hz

Part numbering system (example: 50V6800μF)

Environmental item	LH7 (Series code)	—	50 (Rated voltage symbol)	V	682 (Rated capacitance symbol)	M (Capacitance tolerance symbol)	⬚ (Additional symbol)	#
Former item	LH7 (Series code)	—	50 (Rated voltage symbol)	V	682 (Rated capacitance symbol)	M (Capacitance tolerance symbol)	⬚ (Additional symbol)	

Coefficient of Frequency for Rated Ripple Current

Frequency(Hz) / Rated voltage(V)	50	120	1k	10k	20k
50 or less	0.95	1	1.10	1.15	1.15
63 to 100	0.95	1	1.16	1.30	1.33
160 or more	0.90	1	1.20	1.50	1.55

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