ELECTRIC DOUBLE LAYER CAPACITORS "EVerCAP®"

nichicon

JL series

Screw Terminal Type, High Power Density Type

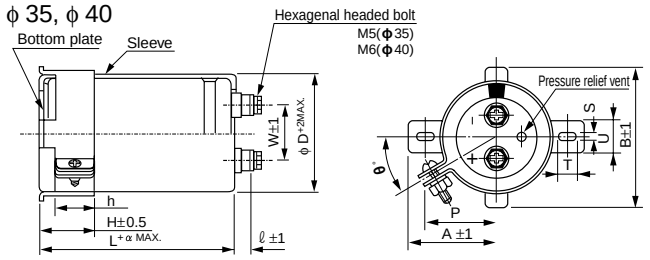
- High power density.
- Rapid charge-discharge.
- Suitable for regeneretion and UPS applications.
- Compliant to the RoHS directive (2002/95/EC).

■Specifications

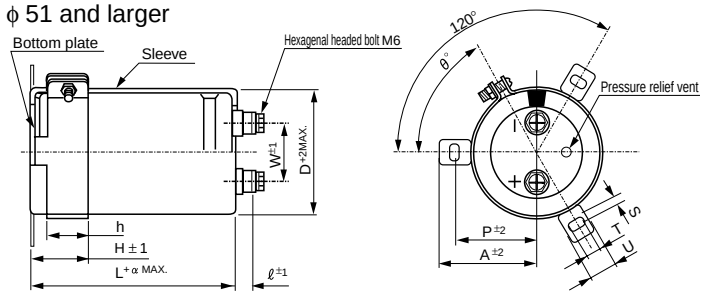
Item	Performance Characteristics
Category Temperature Range	– 25 to + 60°C
Rated Voltage Range	2.5V
Rated Capacitance Range	400 to 2600F See Note
Capacitance Tolerance	±20% (20°C)
Leakage Current	0.5C (mA) [C : Rated Capacitance (F)] (After 30 minutes' application of rated voltage. 2.5V)
Stability at Low Temperature	Capacitance (– 25°C) / Capacitance (+20°C) ×100 ≧ 70% DCR (–25°C) / DCR (+20°C) ≦ 7
DCR*	Refer to the list below. (20°C) *DC internal resistance
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 2000 hours at 60°C. — Capacitance change: Within ±30% of the initial capacitance value; DCR: 300% or less than the initial value; Leakage current: Less than or equal to the initial specified value
Shelf Life	The specifications listed at right shall be met when the capacitors are restored to 20°C after storing the capacitors under no load for 2000 hours at 60°C. — Capacitance change: Within ±30% of the initial capacitance value; DCR: 300% or less than the initial value; Leakage current: Less than or equal to the initial specified value
Marking	Printed with white color letter on black sleeve.

■Drawing

ϕ 35, ϕ 40



ϕ 51 and larger



Type numbering system (Example : 2.5V 650F)

1	2	3	4	5	6	7	8	9	10	11	12	13	14
J	J	L	0	E	6	5	7	M	S	E	C		

- 1–3: Series name
- 4–5: Rated voltage (2.5V)
- 6–8: Rated capacitance (650F)
- 9: Capacitance tolerance (±20%)
- 10–11: Configuration ※
- 12: Case dia. code(ϕ35)

ϕD	Code
35	C
40	D
51	F
63.5	G

- 13–14: Mounting bracket

(ϕ35, ϕ40)

Code less	2-leg brackets
BN	No brackets

(ϕ51, ϕ63.5)

Code less	3-leg brackets
BB	2-leg brackets
BN	No bracket

※Configuration

Cr (III) Plating (RoHS compliant)
SE

■Dimensions

Rated Voltage (Code)	Cap. (F)	Cap. code	DCR※ Typical (mΩ)	Case size ϕD×L (mm) ϕ D	L	Ref. Weight (g)
2.5V (0E)	400	407	6.0	35	85	130
	550	557	4.0		105	160
	650	657	3.5		135	210
	700	707	3.5	40	105	210
	850	857	2.5		135	250
	1500	158	1.8	51	135	450
	1600	168	1.7		150	500
	2600	268	1.3	63.5	150	800

※ The listed DCR value is typical and therefore not a guaranteed value.

● Dimensions of terminal pitch(W) and length(ℓ) and Normal dia. of bolt (mm)

ϕ D	W	ℓ	α	Nominal of bolt
35	12.7	6	3	M5
40	18.8	9	3	M6
51	26.0	10	3	M6
63.5	28.6	10	3	M6

● Dimensions of mounting bracket (mm)

Leg shape / ϕD / Symbol	3-Legs 51	3-Legs 63.5	2-Legs 35	2-Legs 40	2-Legs 51	2-Legs 63.5
P	32.5	38.1	24	27	33.2	40.5
A	38.5	43	29	32	40	46.5
B	–	–	45	48	–	–
T	7.5	8.0	7.0	7.0	6.0	7.0
S	5.0	5.0	3.5	3.5	4.5	4.5
U	12	14	10	10	14	14
θ°	60	60	30	45	30	30
H	20	25	15	17	25	35
h	15	20	10	12	15	20

Note :
The capacitance calculated from discharge time (ΔT) with constant current (i) after 30minuite charge with rated voltage (2.5V).
The discharge current (i) is 0.01 × rated capacitance (F).
The discharge time (ΔT) measured between 2V and 1V with constant current.
The capacitance calculated bellow.

Capacitance (F) = i × ΔT

CAT.8100Z