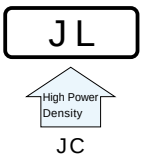
ELECTRIC DOUBLE LAYER CAPACITORS "EVerCAP®"

nichicon

JL series

Screw Terminal Type, High Power Density Type

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

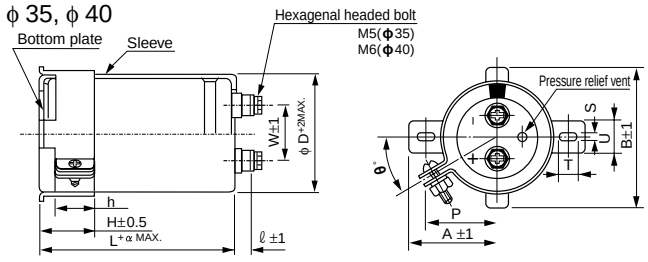


■Specifications

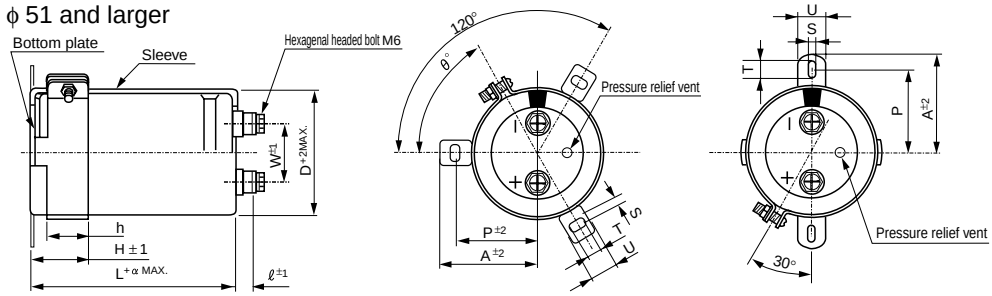
Item	Performance Characteristics
Category Temperature Range	– 25 to + 60°C
Rated Voltage Range	2.5V
Rated Capacitance Range	400 to 2600F See Note
Capacitance Tolerance	±20% (20°C)
Leakage Current	0.5C (mA) [C : Rated Capacitance (F)] (After 30 minutes' application of rated voltage. 2.5V)
Stability at 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 initial value; DCR: 300% or less of initial specified 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 initial value; DCR: 300% or less of initial specified 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: Type
- 4–5: Series name
- 6–8: Rated voltage (2.5V)
- 9: Rated Capacitance (650F)
- 10: Capacitance tolerance (±20%)
- 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 (mΩ)	Case size ϕD×L (mm) ϕ D	L	Ref. Weight (g)
2.5V (0E)	400	407	7	35	85	130
	550	557	5		105	160
	650	657	4		135	210
	700	707	4	40	105	210
	850	857	3		135	250
	1500	158	2	51	135	450
	1600	168	2		150	500
	2600	268	1.6	63.5	150	800

● 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	22.0	10	3	M6
63.5	28.6	10	3	M6

● Dimensions of mounting bracket (mm)

Symbol \ Leg shape / ϕD	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 × F (rated capacitance).

A discharge time (ΔT) measured between 2V and 1V with constant current.

The capacitance calculated bellow.

Capacitance (F) = i × ΔT