

JL Series

- Achieved low resistance and high energy density with our unique electrode process technology.
- Higher charge/discharge efficiency than batteries.
- Environment-friendly
- Suitable for electricity storage, battery assistance, short-term backups, etc.
- Also suitable for kinetic energy recapturing, start/stop application for automobile.



◆ Main Technology Performance

Item	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		
Endurance	Refer to the table below (20°C). *DC internal resistance		
Shelf Life	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
		ESR	300% or less than the initial specified value
		Leakage current	Less than or equal to the initial specified value
Marking	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
		ESR	300% or less than the initial specified value
		Leakage current	Less than or equal to the initial specified value
ESR, DCR*	Printed with white color letter on black sleeve.		

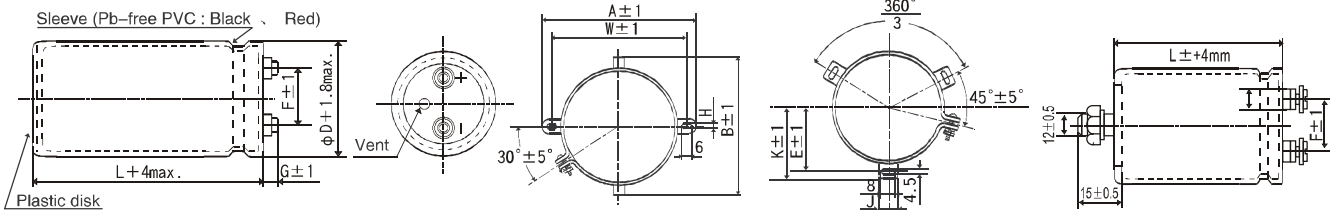
◆ DIMENSIONS[mm]

● Terminal Code: M5

● Mounting Clamp Code: B

● Mounting Clamp Code: C

● NO Mounting Clamp Code: N



φ35 t o φ63.5 : G=6

<Screw specifications>

Plus hexagon-headed screw :M5 × 0.8 × 10、M6 × 1.0 × 10
Maximum screw tightening torque :3.23Nm

* The screw and the mounting clamp are separately supplied and not attached to the product.

※ Configuration

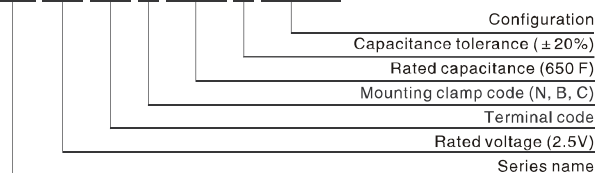
Cr (III) Plating (RoHS compliant)
SE

(mm)

φD	W	ℓ	α	Nominal of bolt
35	12.7	6	3	M5
42	18.8	9	3	M5
50	26.0	10	3	M6
63.5	28.6	10	3	M6

◆ PART NUMBERING SYSTEM

J L 2 5 M 5 B 6 5 1 M A 1 3 5



Case dia. code(φ 35) (φ 35, φ 42)

φD	Code
35	A
42	F
50	C
63.5	D

Mounting bracket

Code less	2-leg brackets
N	No brackets
(φ 50, φ 63.5 , φ 76.2)	
Code less	3-leg brackets
B	2-leg brackets
N	No bracket

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◆ Dimensions

Rated Voltage (Code)	Cap. (F)	Cap. code	DCR Typical (mΩ)	Case size		Ref. Weight (g)
				φD (mm)	L (mm)	
2.5V (0E)	400	401	6.0	35	85	130
	550	551	4.0		105	160
	650	651	3.5		135	210
	700	701	3.5	42	105	210
	850	851	2.5		135	250
	1500	158	1.8	50	135	450
	1600	168	1.7		150	500
	2600	268	1.3		63.5	150

◆ Dimensions of mounting bracket (mm)

Symbol	φD	3-Legs			2-Legs			
		50	63.5	76.2	35	42	50	63.5
P	32.5	38.1	44.5	24	27	33.2	40.5	
A	38.5	43	49.2	29	32	40	46.5	
B	-	-	-	45	48	-	-	
T	7.5	8.0	7.0	7.0	7.0	6.0	7.0	
S	5.0	5.0	5.0	3.5	3.5	4.5	4.5	
U	12	14	14	10	10	14	14	
θ°	60	60	60	30	45	30	30	
H	20	25	30	15	17	25	35	
h	15	20	24	10	12	15	20	

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

Note :

The capacitance calculated from discharge time (ΔT) with constant current (i) after 30minute charge with rated voltage (2.5V).

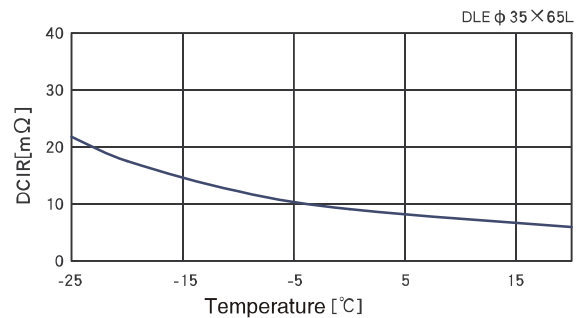
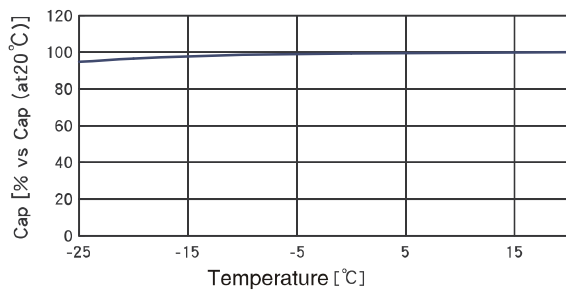
The discharge current (i) is 0.01 × rated capacitance (F).

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

The capacitance calculated below.

$$\text{Capacitance (F)} = i \times \Delta T$$

◆ Temperature Characteristics of Capacitance & DCIR



◆ 60°C Load Life Test

