ELECTRIC DOUBLE LAYER CAPACITORS "EVerCAP®"

nichicon

JD Screw Terminal Type, High Energy Density Type series

NEW

- High energy density.
- Suitable for electric power storage.
- Available for adapted to the RoHS directive (2002/95/EC).

JD
High Energy Density
JC

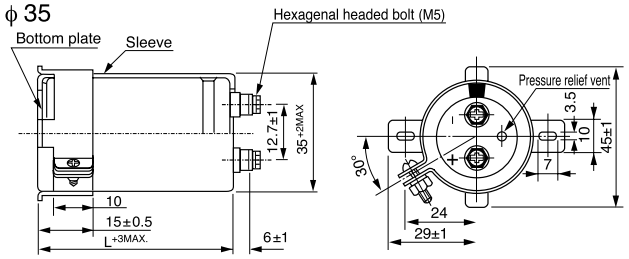


■Specifications

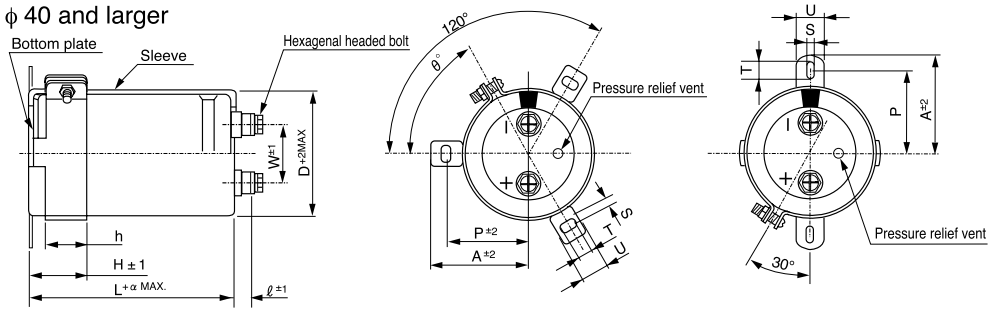
Item	Performance Characteristics
Category Temperature Range	– 25 ~ + 60°C
Rated Voltage Range	2.5V
Rated Capacitance Range	600 ~ 4000F See Note
Capacitance Tolerance	±20% (20°C)
Stability at Temperature	Capacitance (– 25°C) /Capacitance (+20°C) ×100 ≧ 70% DCR(–25°C) / DCR (+20°C) ≦ 7
DCR*	Refer to the list below. (20°C) *DC internal resistance
Endurance	After an application of DC voltage for 2000 hours at 60°C, capacitors meet the characteristic requirements listed at right. — Capacitance change: Within ±30% of initial value; DCR: 300% or less of initial specified value
Shelf Life	After storing the capacitors under no load at 60°C for 2000hours, they will meet the characteristic requirements listed at right. — Capacitance change: Within ±30% of initial value; DCR: 300% or less of initial specified value
Marking	Printed with white color letter on black sleeve.

■Drawing

ϕ 35



ϕ 40 and larger



Type numbering system (Example : 2.5V 600F)

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

- 1–3: Type
- 4–5: Series name
- 6–8: Rated voltage (2.5V)
- 9: Rated Capacitance (600F)
- 10: Capacitance tolerance (±20%)
- 11–12: Configuration ※
- 13–14: Case dia. code(ϕ35)

ϕD	Code
35	C
40	D
51	F
63.5	G

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 ϕ (mm)	Case size L (mm)	Weight (g)
2.5V (0E)	**600**	607	16	35	85	130
	800	807	13		105	160
	950	957	10		135	210
	1000	108	10	40	105	210
	1300	138	8		135	250
	2300	238	5	51	135	450
	2500	258	4		150	500
	4000	408	2	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
40	18.8	9	3	M6
51	22.0	10	3	M6
63.5	28.6	10	3	M6

● Dimensions of mounting bracket (mm)

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

Note :

To calculate capacitance, the capacitor must be charged at the rated voltage of 2.5V for 30 minutes. Measure the time of duration ΔT (sec.) it takes go from 2V to 1V when a constant current discharge of i (A) = 0.01 × nominal capacitance is carried out. It is then possible to calculate capacitance based on the calculation provided below.

Capacitance (F) = I × ΔT