

ELECTRIC DOUBLE LAYER CAPACITORS "EVerCAP®"

nichicon

JD

Screw Terminal Type, High Energy Density Type

series

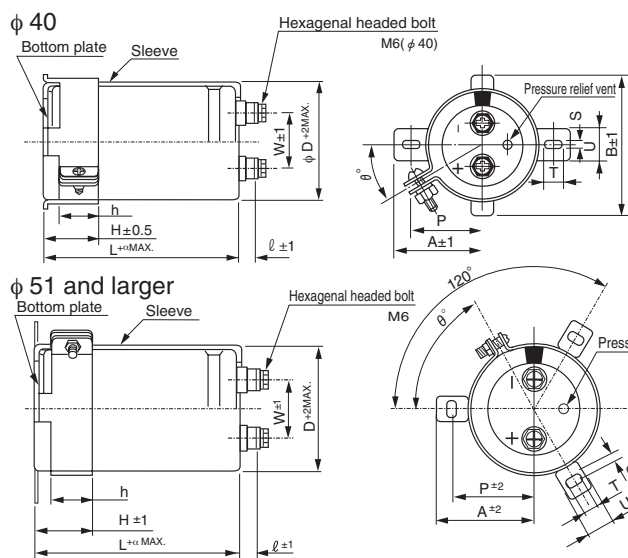
- High energy density.
- Suitable for electric power storage.
- Compliant to the RoHS directive (2011/65/EU).



Specifications

Item	Performance Characteristics		
Category Temperature Range	− 25 to + 60°C		
Rated Voltage Range	2.5V		
Rated Capacitance Range	1000 to 6000F 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 Temperature	Capacitance (− 25°C) /Capacitance (+20°C) ×100 ≥ 70% DCR(−25°C) / DCR (+20°C) ≤ 7		
DCR*	Refer to the table 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



Type numbering system (Example : 2.5V 1000F)

1	2	3	4	5	6	7	8	9	10	11	12	13	14
J	J	D	E	1	0	8	M	S	E	D			
Mounting bracket													
Configuration ※													
Capacitance tolerance (±20%)													
Rated capacitance (1000F)													
Rated voltage (2.5V)													
Series name													
Type													
Case dia. code (φ40) (φ40)													
φD													
Code													
40													
Code less													
BN													
2-leg brackets													
51													
Code													
F													
(φ51, φ63.5, φ76.2)													
63.5													
Code less													
G													
3-leg brackets													
76.2													
Code													
H													
2-leg brackets													
BN													
No bracket													

※ Configuration

Cr (III) Plating (RoHS compliant)
SE

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.
Capacitance (F) = i × ΔT

Dimensions

Rated Voltage (Code)	Cap. (F)	Cap. code	DCR ※ Typical (mΩ)	Case size		Ref. Weight (g)
				φ (mm)	L (mm)	
2.5V (0E)	1000	108	8.0	40	105	210
	1300	138	6.0		135	250
	2300	238	4.0	51	135	450
	2500	258	3.5		142	500
	4000	408	2.2	63.5	150	800
	6000	608	2.2	76.2	165	1300

※ 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	Nominal of bolt	
40	18.8	9	3	M6
51	26.0	10	3	M6
63.5	28.6	10	3	M6
76.2	31.8	6	3	M6

Dimensions of mounting bracket (mm)

Symbol	3-Legs				2-Legs			
	51	63.5	76.2	40	51	63.5	76.2	
P	32.5	38.1	44.5	27	33.2	40.5	46.5	
A	38.5	43	49.2	32	40	46.5	53	
B	—	—	—	48	—	—	—	
T	7.5	8.0	7.0	7.0	6.0	7.0	6.0	
S	5.0	5.0	5.0	3.5	4.5	4.5	4.5	
U	12	14	14	10	14	14	14	
θ°	60	60	60	45	30	30	30	
H	20	25	30	17	25	35	35	
h	15	20	24	12	15	20	20	

Note) The brackets will be supplied in the separate box.