ELECTRIC DOUBLE LAYER CAPACITORS "EVerCAP"

nichicon

JC Screw Terminal Type

series

- Excellent in voltage holding property
- Suitable for quick charge and discharge
- Wild temperature range (– 25°C ~ + 60°C)
- Available for adapted to the RoHS directive (2002/95/EC).

■Specifications

Item	Performance Characteristics
Category Temperature Range	– 25 ~ + 60°C
Rated Voltage Range	2.5V
Rated Capacitance Range	470 ~ 3300F 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%
E.S.R.	Refer to the list below.
Endurance	After an application of DC voltage for 1000 hours at 60°C, capacitors meet the characteristic requirements listed at right.
Shelf Life	After leaving capacitors under no load at 60°C for 1000hours, they meet the characteristic requirements listed at right.
Marking	Printed with white color letter on black sleeve.

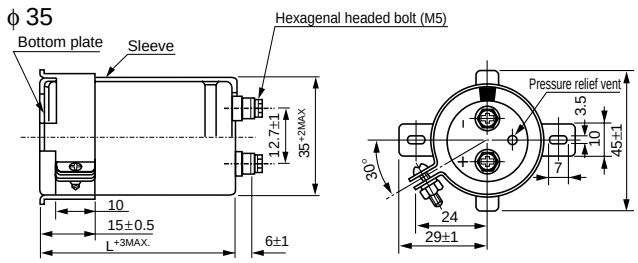
Endurance:

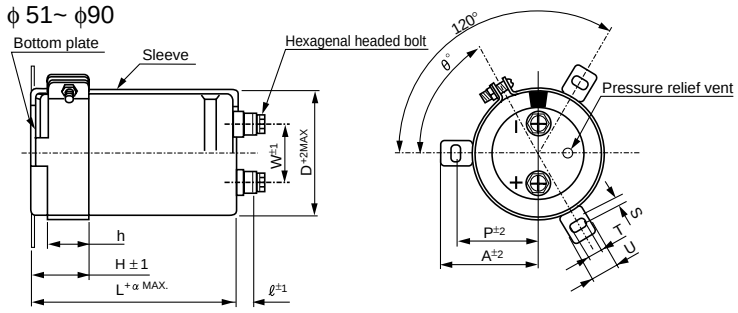
Capacitance change	Within ±30% of initial value
E.S.R.	300% or less of initial specified value
Leakage current	Initial specified value or less

Shelf Life:

Capacitance change	Within ±15% of initial value
E.S.R.	300% or less of initial specified value
Leakage current	Initial specified value or less

■Drawing





Type numbering system (Example : 2.5V 470F)

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

- 1 2 : Type
- 3 : Series name
- 4 5 : Rated voltage (2.5V)
- 6 7 8 : Rated Capacitance (470F)
- 9 : Capacitance tolerance (±20%)
- 10 11 : Configuration ※
- 12 : Case dia. code
- 13 14 : Mounting bracket

Case dia. code	
ϕD	Code
35	C
51	F
63.5	G
76.2	H
90	J

Mounting bracket

(ϕ35)

Code less	2-leg brackets
BN	No brackets

(ϕ51 ~ ϕ90)

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

※Configuration

Cr (Ⅲ) Plating (RoHS compliant)	Cr (Ⅵ) Plating
SE	SM

■Dimensions

Rated Voltage (V)	Cap. (F)	Cap code	E.S.R. (at 1kHz 20°C)	Case size ϕ35 (C)	ϕ51 (F)	ϕ63.5 (G)	ϕ76.2 (H)	ϕ90 (J)
2.5 (0E)	470	477	12mΩ	35×120				
	1000	108	10mΩ		51×120			
	1200	128	7mΩ		51×160			
	1500	158	8mΩ			63.5×120		
	1800	188	5mΩ			63.5×160		
	2200	228	5mΩ				76.2×120	
	2700	278	4mΩ				76.2×160	
	3300	338	3mΩ					90×160

■Dimensions of mounting bracket

(mm)

Symbol \ ϕD	3-Legs 51	63.5	76.2	90	2-Legs 51	63.5	76.2	90
P	32.5	38.1	44.5	50.8	33.2	40.5	46.5	53
A	38.5	43	49.2	58.5	40	46.5	53	59
T	7.5	8.0	7.0	8.0	6.0	7.0	6.0	6.0
S	5.0	5.0	5.0	5.0	4.5	4.5	4.5	4.5
U	12	14	14	18	14	14	14	14
θ°	60	60	60	60	30	30	30	30
H	20	25	30	35	25	35	35	35
h	15	20	24	25	15	20	20	20

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

ϕ D	W	ℓ	α	Nominal of bolt
51	22.0	6	3	M5
63.5	28.6	6	3	M5
76.2	31.8	6	3	M5
90	31.8	6	3	M5

Note :

After charging a capacitor at the rated voltagr of 2.5V for 30-minute, the capacitance is caluculated by the following formula, measuring the time of duration, ΔT (sec.) from 2V down to 1V when constant current discharge at i (A) =0.01 × nominal capacitance is carried out.

Capacitance (F)= i × ΔT