ELECTRIC DOUBLE LAYER CAPACITORS "EVerCAP®"

nichicon

JJC

Snap-in Terminal Type

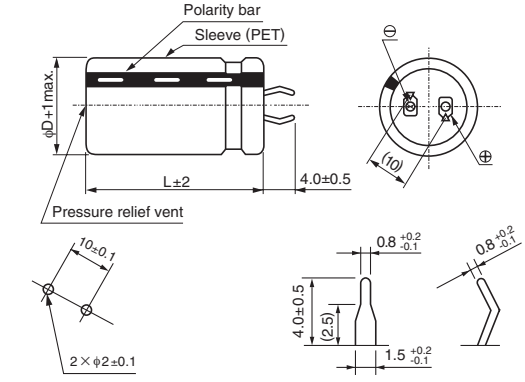
- Excellent in voltage holding property.
- Suitable for quick charge and discharge.
- Wide temperature range (– 25°C to + 60°C).
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).

Products which are scheduled to be discontinued.
Not recommended for new designs.

■Specifications

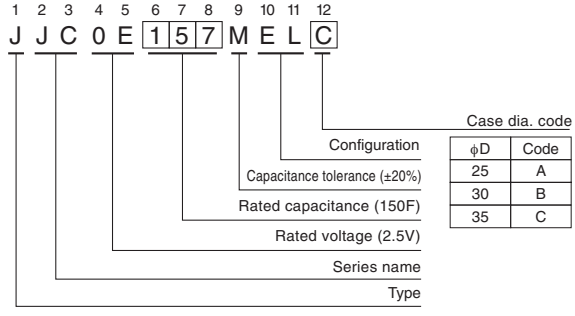
Item	Performance Characteristics		
Category Temperature Range	– 25 to +60°C		
Rated Voltage Range	2.5V		
Rated Capacitance Range	56 to 200F See Note		
Capacitance Tolerance	±20% (20°C)		
Stability at Low Temperature	Capacitance (– 25°C) / Capacitance (+20°C) ×100 ≧ 70% ESR (– 25°C) / ESR (+20°C) ≦ 7		
ESR, 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
		ESR	300% or less than 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
		ESR	300% or less than the initial specified value
Humidity Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 500 hours at 40°C 90%RH.	Capacitance change	Within ±30% of the initial capacitance value
		ESR	300% or less than the initial specified value
Marking	Printed with white color letter on black sleeve.		

■Drawing



(PC board hole dimensions) (Terminal dimensions)

Type numbering system (Example : 2.5V 150F)



ϕD	Code
25	A
30	B
35	C

■Dimensions

Rated Voltage (code)	Cap. (F)	Cap. code	ESR(mΩ) (at 1kHz)	DCR※ Typical (mΩ)	Case size ϕD×L (mm)		
					ϕ25 (A)	ϕ30 (B)	ϕ35 (C)
2.5V (0E)	56	566	70	50	25×40	30×30	
	68	686	60	45			35×30
	82	826	60	35	25×50	30×40	
	100	107	50	30			35×35
	120	127	50	25		30×50	35×40
	150	157	40	22			35×50
	200	207	30	16			35×50

※ 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 30minuite 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 bellow.

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