



Snap-in Terminal Type

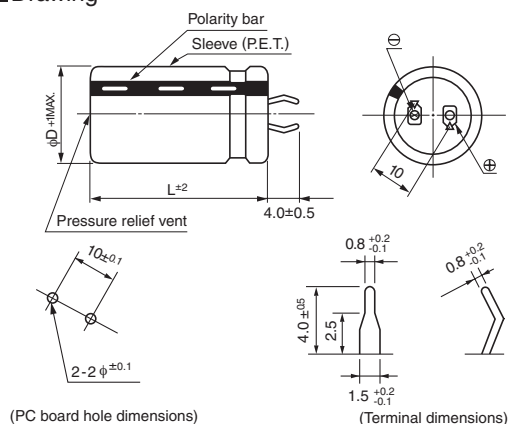
- Excellent in voltage holding property.
- Suitable for quick charge and discharge.
- Wide temperature range (– 25°C to + 60°C).
- Compliant to the RoHS directive (2011/65/EU).



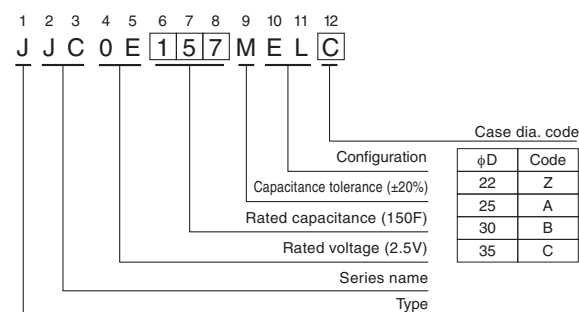
Specifications

Item	Performance Characteristics	
Category Temperature Range	– 25 to +60°C	
Rated Voltage Range	2.5V	
Rated Capacitance Range	27 to 200F 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%	
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
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.	300% or less than the initial specified value
		Leakage current
		Less than or equal to the initial specified value
Marking	Printed with white color letter on black sleeve.	Capacitance change
		Within ±30% of the initial capacitance value
		ESR
Marking	Printed with white color letter on black sleeve.	300% or less than the initial specified value
		Leakage current
		Less than or equal to the initial specified value

Drawing



Type numbering system (Example : 2.5V 150F)



Dimensions

Rated Voltage (code)	Cap. (F)	Cap. code	ESR(mΩ) (at 1kHz)	DCR* Typical (mΩ)	Case size φD × L (mm)			
					φ 22 (Z)	φ 25 (A)	φ 30 (B)	φ 35 (C)
2.5V (0E)	27	276	90	110	22 × 30			
	33	336	80	90		25 × 30		
	39	396	80	80	22 × 35	25 × 30		
	47	476	70	60	22 × 40	25 × 35		
	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

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 bellow.

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