ELECTRIC DOUBLE LAYER CAPACITORS "EVerCAP®"

nichicon



Radial Lead Type, High Voltage

• High voltage type (2.7V).

- Suitable for quick charge and discharge.
- Wide temperature range (- 25 to +70°C).
- Compliant to the RoHS directive (2011/65/EU).

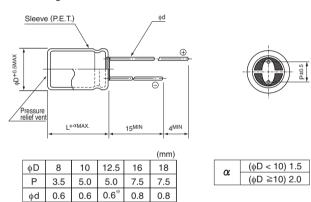




Specifications

Item	Performance Characteristics					
Category Temperature Range	- 25 to +70°C					
Rated Voltage Range	2.7V					
Rated Capacitance Range	1 to 47F See Note					
Capacitance Tolerance	±20% , 20°C					
Leakage Current	0.5C (mA) [C:Rated Capacitance(F)] (After 30 minutes' application of rated voltage : 2.7V)					
Stability at Low Temperature	Capacitance (- 25°C) / Capacitance (+20°C) ×100 \geq 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	Capacitance change	Within ±30% of the initial capacitance value			
	are restored to 20°C after the rated voltage is applied for 1000 hours	ESR	300% or less than the initial specified value			
	at 70°C.	Leakage current	Less than or equal to the initial specified value			
Shelf Life	The specifications listed at right shall be met when the capacitors	Capacitance change	Within ±30% of the initial capacitance value			
	are restored to 20°C after storing the capacitors under no load	ESR	300% or less than the initial specified value			
	for 1000 hours at 70°C.	Leakage current	Less than or equal to the initial specified value			
Marking	Printed with white color letter on black sleeve.					

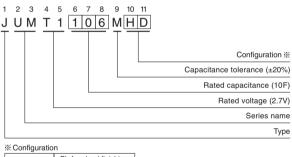
Drawing



% In case L>25 for the φ12.5 dia unit, lead dia φd=0.8

• Please refer to page 20 for end seal configuration.

Type numbering system (Example : 2.7V 10F)



φD	Pb-free lead finishing Pb-free PET sleeve		
8 · 10	PD		
12.5 to 18	HD		

Dimensions

Rated Voltage (Code)	Rated Capacitance (F)	Code	ESR (Ω) (at 1kHz)	DCR※ Typical (Ω)	Case size _{\$\phi\$} D × L (mm)
2.7V (T1)	1	105	2	3	8 × 11.5
	2.2	225	2	1.3	8 × 20
	3.3	335	1	1.0	10 × 20
	4.7	475	0.4	0.6	12.5 × 20
	10	106	0.2	0.25	12.5 × 31.5
	22	226	0.2	0.13	16 × 31.5
	33	336	0.1	0.08	18 × 31.5
	47	476	0.1	0.06	18 × 40

Note :

The capacitance calculated from discharge time (Δ T) with constant current (i) after 30minuite charge with rated voltage (2.7V).

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.

Capacitance (F) = $i \times \Delta T$

* The listed DCR value is typical and therefore not a guaranteed value.

