ELECTRIC DOUBLE LAYER CAPACITORS "EVerCAP®"

nichicon



• Standard type (2.7V).

• Suitable for quick charge and discharge.

• Wide temperature range (- 25 to +70°C).

• Compliant to the RoHS directive (2011/65/EU).

Radial Lead Type, Standard

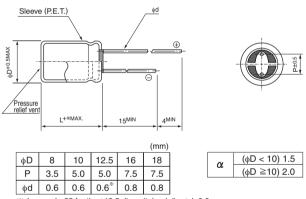




Specifications

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						
Stability at Low Temperature	Capacitance (– 25°C) / Capacitance (+20°C) ×100 ≥ 70% ESR (– 25°C) / ESR (+20°C) ≤ 4						
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 at 70°C.	ESR	300% or less than the initial specified value				
	The specifications listed at right shall be met when the capacitors	Capacitance change	Within ±30% of the initial capacitance value				
Shelf Life	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.						
Humidity 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 500 hours	ESR	300% or less than the initial specified value				
	at 40°C 90%RH.						
Marking	Printed with white color letter on black sleeve.						

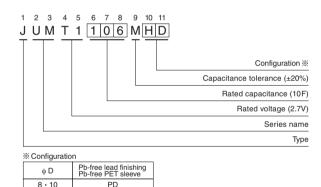
Drawing



 $\%\,$ In case L>25 for the $_{\varphi}12.5$ dia unit, lead dia $\,_{\varphi}d{=}0.8$

• Please refer to page 20 for end seal configuration.

Type numbering system (Example : 2.7V 10F)



Dim	ensions	;
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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	1.8	3	8×11.5
	2.2	225	1.0	1.3	8 × 20
	3.3	335	0.6	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	0.07	0.13	16 × 31.5
	33	336	0.06	0.08	18 × 31.5
	47	476	0.05	0.06	18 × 40

Note :

12.5 to 18

- 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 ($\Delta T)$ measured between 2V and 1V with constant current.

The capacitance calculated bellow.

HD

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

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

