

USC Series Double Layer 法拉級電容品

Features

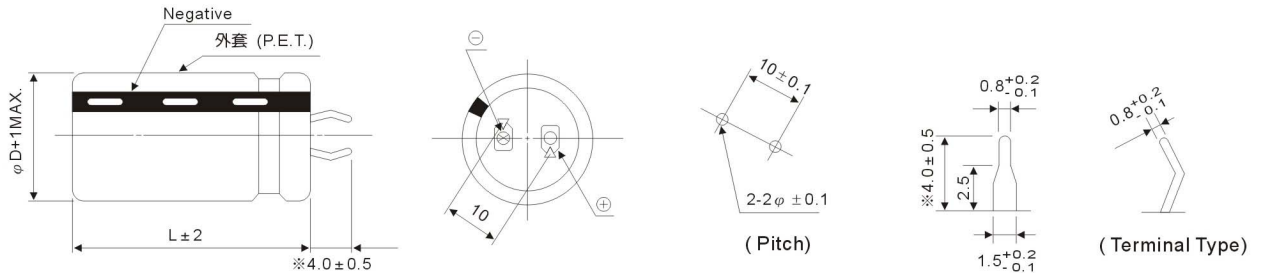
- Highly reliable capacitors that with stand long life.



Specifications

No	Item	Performance Characteristics
1	使用溫度範圍 Operating Temperature Range	-25 to +60°C
2	定格電壓範圍 Rated voltage Range	2.5VDC
3	靜電容量許差 Capacitance Tolerance	±20% at 120Hz, 20°C
4	靜電容量範圍 Capacitance Range	15F to 150F
5	漏電電流 Leakage Current(+20°C,max.)	$I \leq 0.5CV$ (mA) After 30 minutes, whichever is greater measured With rated working voltage applied
6	高溫負荷特性 Load Life	After 2000 hours, application of rated voltage at 60°C, capacitors meet the characteristics requirements listed as belows.
7	高溫無負荷特性 Shelf Life	Test conditions Duration time :2000Hrs Ambient temperature :+60°C Applied voltage:None After test requirements at +20°C: Same limits as Load life .Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes.

Outline drawing:(Unit:mm) 04型



※ 關於額定靜電容量的計算，可在額定電壓(2.5V)下充電30分鐘後，以*I*(A)=0.01×公稱容量進行放電，測定從2V降到1V所需的時間Δ*T*(Sec.)，然後按下式計算得出。

$$\text{額定靜電容量 (F)} = i \times \Delta T$$

As count of rated capacitance as below formula to charge after 30mins in 2.5V with $I(A)=0.01 \times \text{capacitance}$ (then discharge), test the time $\Delta T(\text{Sec.})$ Which need from 2V flow to 1V.

$$\text{Rated capacitance (F)} = I \times \Delta T$$

Dimension

Rated voltage (Code)	Capacitance (F)	Code	ESR※ 1kHz時 (mΩ)	DSR※ (mΩ)	Size φD×L (mm)			
					φ22(Z)	φ25(A)	φ30(B)	φ35(C)
2.5V (0E)	15	156	120	500	22×20			
	18	186	120	400		25×20		
	22	226	90	300			30×20	
	27	276	90	250	22×30		30×20	
	33	336	80	200		25×30		35×20
	39	396	80	200	22×35	25×30		35×20
	47	476	70	160	22×40	25×35		
	56	566	70	140		25×40	30×30	
	68	686	60	110				35×30
	82	826	60	100		25×50	30×40	
	100	107	50	90				35×35
	120	127	50	70			30×50	35×40
150	157	40	60				35×50	

※ ESR: 等效串聯電阻 (effective series resistance)

※ DCR: 直流內部電阻 (direct current inside resistance)