SC Series

CHIP TYPE, LOW LEAKAGE CURRENT

貼片式,低漏電流品

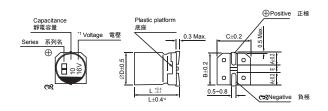
- Low leakage current (0.5~3.3µA max.) 低漏電流 (0.5~3.3µA 最大值)
- Low cost for replacement of some tantalum applications 可替換價格較高的鉭電容器
- RoHS & REACH compliant, Halogen-free 符合 RoHS 與 REACH,無鹵



● SPECIFICATIONS 特性表

Items 項目	Characteristics 主要特性									
Operation Temperature Range 使用温度範圍	-40 ~ +85°C									
Voltage Range 額定工作電壓範圍	6.3 ~ 50V									
Capacitance Range 靜電容量範圍	0.1 ~ 220μF									
Capacitance Tolerance 靜電容量允許偏差	±20% at 120Hz, 20°C									
Leakage Current 漏電流	Leakage current ≤0.002CV or 0.5µA, whichever is greater (after 2 minutes application of rated voltage at 20°C) 漏電流 ≤0.002CV 或 0.5µA, 取較大值(在 20°C 環境中施加額定工作電壓 2 分鐘後) C: Nominal capacitance (µF) 標稱靜電容量, V: Rated voltage (V) 額定電壓									
	Measurement frequency 測試	頻率: 120Hz, T	empe	rature 温度: 20	°C					
Surge Voltage & Dissipation Factor (tan δ)	Rated Voltage (V) 額定工作	電壓 6.3		10	16	25	35	50		
浪湧電壓和損耗角正切	Surge voltage 浪湧電壓			13	20	32	44	63		
次/万屯王·1000年7月	tan δ (max.) 最大損耗角正	切 0.24	1	0.20	0.16	0.14	0.12	0.10		
	Measurement frequency 測試頻率: 120Hz									
Stability at Low Temperature	Rated Voltage (V) 額定工作電壓			6.3	10		16, 25	35, 50		
低溫特性	Impedance Ratio 阻抗比 Z(-25°C) / Z(20			4	3		2	2		
	ZT/Z20 (max.) Z(-40°C) / Z(20			8	6		4 3			
	After 2000 hours application of the rated voltage at 85°C, they meet the characteristics listed below. 在 85°C 環境中施加額定工作電壓 2000 小時後,電容器的特性符合下表的要求。									
Load Life	Capacitance Change 靜電容	量變化率	With	nin ±25% of initi	al value 初始	值的±25%以	內			
高溫負荷特性	Dissipation Factor 損耗角正	切	200% or less of initial specified value 不大於規範值的 200%							
	Leakage Current 漏電流 initial specified value or less 不大於規範值									
Resistance to Soldering Heat	After reflow soldering and restored at room temperature, they meet the characteristics listed below. 經過回流焊並冷卻至室溫後,電容器的特性符合下表的要求。									
耐焊接熱特性	Capacitance Change 靜電容			nin ±10% of initi			内			
(Please refer page 23 for soldering conditions) (焊接條件請查閱第 23 頁)	Dissipation Factor 損耗角正	切		al specified valu						
(冲攻除江明互関第 23 員)	Leakage Current 漏電流		initia	al specified valu	e or less 不大	於規範值				
Marking 標識	Black print on the case top.	Black print on the case top. 鋁殼頂部黑字印刷。								

● DRAWING 外形圖 (Unit: mm)



*1. Voltage mark for 6.3V is [6V] *2. Applicable to Ø6.3×7.7 6.3V 的產品標識為 [6V] 適用於∅6.3×7.7

O DIMENSIONS (Unit: mm) 尺寸表

ØD x L	4 x 5.4	5 x 5.4	6.3 x 5.4	6.3 x 7.7	
Α	2.0	2.2	2.6	2.6	
В	B 4.3 5.3		6.6	6.6	
С	4.3	5.3	6.6	6.6	
E ± 0.2	1.0	1.4	1.9	1.9	
L	5.4	5.4	5.4	7.7	

Note: All design and specifications are for reference only and is subject to change without prior notice. If any doubt about safety for your application, please contact us immediately for technical assistance before purchase.

SC Series

O DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT & ESR 規格尺寸及最大允許紋波電流及 ESR 值

WV		6.3 (0J)				10 (1A)		16 (1C)		
Pai μF	rameter 參數	Case size ØD×L (mm) 尺寸	E.S.R. (Ω) 20°C, 120Hz E.S.R.值	Ripple current (mA rms) at 85°C, 120Hz 紋波電流	Case size ØD×L (mm) 尺寸	E.S.R. (Ω) 20°C, 120Hz E.S.R.值	Ripple current (mA rms) at 85℃, 120Hz 紋波電流	Case size ØD×L (mm) 尺寸	E.S.R. (Ω) 20°C, 120Hz E.S.R.值	Ripple current (mA rms) at 85°C, 120Hz 紋波電流
10	100							4× 5.4	34.5	25
22	220	4 × 5.4	23.5	31	5 × 5.4	19.6	35	5 × 5.4	15.7	39
33	330	5 × 5.4	15.7	39	5 × 5.4	13.1	43	6.3 × 5.4	10.5	57
47	470	5 × 5.4	11.0	47	6.3 × 5.4	9.2	59	6.3 × 5.4	7.3	68
100	101	6.3 × 5.4	5.2	75	6.3 × 5.4	4.3	76	6.3 × 7.7	3.5	96
220	221	6.3 × 7.7	2.4	85						

	WV 25 (1E)		35 (1V)			50 (1H)				
Par μF	wameter 參數	Case size ØD×L (mm) 尺寸	E.S.R. (Ω) 20°C, 120Hz E.S.R.值	Ripple current (mA rms) at 85°C, 120Hz 紋波電流	Case size ØD×L (mm) 尺寸	E.S.R. (Ω) 20°C, 120Hz E.S.R.值	Ripple current (mA rms) at 85℃, 120Hz 紋波電流	Case size ØD×L (mm) 尺寸	E.S.R. (Ω) 20°C, 120Hz E.S.R.值	Ripple current (mA rms) at 85°C, 120Hz 紋波電流
0.1	0R1							4 × 5.4	2156	1.0
0.22	R22							4 × 5.4	980	2.3
0.33	R33							4 × 5.4	653	3.5
0.47	R47							4 × 5.4	459	5
1	010							4 × 5.4	216	10
2.2	2R2							4 × 5.4	98	15
3.3	3R3							4 × 5.4	65	18
4.7	4R7	4 × 5.4	64.2	19	4 × 5.4	55.1	20	5 × 5.4	46	23
10	100	5 × 5.4	30.2	28	5 × 5.4	25.9	30	6.3 × 5.4	22	34
22	220	6.3 × 5.4	13.7	52	6.3 × 5.4	11.8	54	6.3 × 7.7	9.8	85
33	330	6.3 × 5.4	9.1	63	6.3 × 7.7	7.8	105			
47	470	6.3 × 7.7	6.4	100	6.3 × 7.7	5.5	110			

● FREQUENCY COEFFICIENT OF ALLOWABLE RIPPLE CURRENT 紋波電流頻率補償系數

Frequency 頻率	~50Hz	120Hz	300Hz	1KHz	10KHz~
Coefficient 系數	0.70	1.00	1.17	1.36	1.50

- Taping specifications are given in page 17. 編帶標準請查閱第 17 頁。
- Soldering conditions and recommended land size are given in page 23. 焊接條件及推薦安裝尺寸請查閱第 23 頁。
- Please refer to page 18 for the minimum package quantity. 最小包裝數量請查閱第 18 頁。
- Please refer to page 15 for the Part Number System. 產品編碼規則請查閱第 15 頁。