

SC Series

LOW LEAKAGE CURRENT

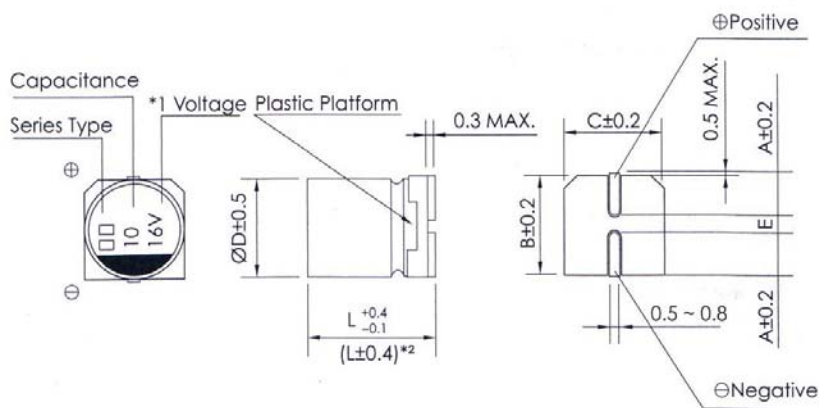
- Low leakage current (*0.5~3.3μA max.)
- Low cost for replacement of some tantalum applications
- Comply with the RoHS directive



SPECIFICATIONS

Item	Characteristics						
Operating Temperature Range	- 40 ~ +85℃						
Voltage Range	6.3 ~ 50 V						
Capacitance Range	0.1 ~ 220 μ F						
Capacitance Tolerance	- 20% ~ + 20% at 20℃, 120Hz						
Leakage Current	Leakage current ≤0.002CV or0.5uA,whichever is greater (after 2 minutes application of rated voltage)						
Surge Voltage & Dissipation Factor(tanδ	Measurement frequency:120Hz ,Temperature:20℃						
	Rated Voltage (V)	6.3	10	16	25	35	50
	Surge voltage	8.0	13	20	32	44	63
	tan δ(max.)	0.24	0.20	0.16	0.14	0.12	0.10
Stability at Low Temperature	Measurement frequency:120Hz						
	Rated Voltage (V)		6.3	10	16,25	35,50	
	Impedance Ratio ZT/Z20(max.)	Z(- 25℃) / Z (+ 20℃)	4	3	2	2	
		Z(- 40℃) / Z (+ 20℃)	8	6	4	3	
Load Life	After 2000 hours application of the rated voltage at 85℃, they meet the characteristics listed below.						
	Capacitance Change	Within ±20% of initial value					
	Dissipation Factor	200% or less of initial specified value					
	Leakage Current	initial specified value or less					
Resistance to Soldering Heat	After reflow soldering and restored at room temperature, they meet the characteristics listed below.						
	Capacitance Change	Within ±10% of initial value					
	Dissipation Factor	initial specified value or less					
	Leakage Current	initial specified value or less					
Marking	Black print on the case top.						

DRAWING (Unit: mm) 外形圖



*1. Voltage mark for 6.3V is [6V] 6.3V的產品標識為 [6V]

*2. Applicable to Ø6.3x7.7 適用於Ø6.3x7.7

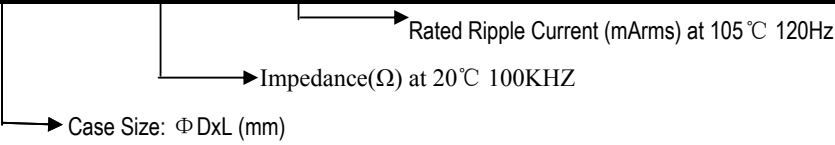
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●DIMENSIONS(Unit:mm)

size(ΦDxL)	4×5.4	5×5.4	6.3×5.4	6.3×7.7
A	1.8	2.1	2.4	2.4
B	4.3	5.3	6.6	6.6
C	4.3	5.3	6.6	6.6
E±0.2	1.0	1.3	2.2	2.2
L	5.4	5.4	5.4	7.7

■DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT &ESR

VV(Vdc) μF		6.3			10			16		
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						



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■ DIMENSIONS MAXIMUM PERMISSIBLE RIPPLE CURRENT

WV(Vdc) μF		6.3			10			16		
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	10							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			

▶ Rated Ripple Current (mA_{rms}) at 105℃ 120Hz

▶ Case Size: ΦD×L (mm)

□ FREQUENCY COEFFICIENT OF ALLOWABLE RIPPLE CURRENT

Frequency	~50HZ	120HZ	300HZ	1KHZ	10KHZ~
Coefficient	0.70	1.00	1.17	1.36	1.50