

SC

Series

Low leakage current

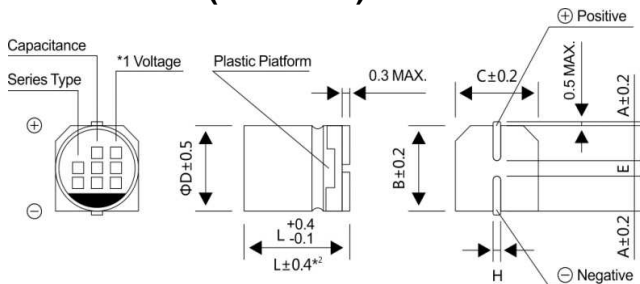
- Low leakage current(0.5 ~3.3μA max.)
- Low cost for replacement of some tantalum applications
- RoHS Compliance



SPECIFICATIONS

Item	Characteristics						
Operation Temperature Range	-40 ~ +85℃						
Voltage Range	6.3 ~ 50V						
Capacitance Range	0.1 ~220μF						
Capacitance Tolerance	± 20 % (at 120Hz , 20℃)						
Leakage Current	WV(V)	6.3 ~ 50					
	Time	After 2 minutes (application of rated voltage)					
	L.C.	I≤0.002CV or 0.5μA, whichever is greater					
Surge Voltage & Dissipation Factor (MAX) (tanδ) (at 120Hz ,20℃)	WV(V)	6	10	16	25	35	50
	Surge Voltage(V)	8	13	20	32	44	63
	tanδ	0.24	0.20	0.16	0.14	0.12	0.10
Low Temp.Impedance Stability at 120Hz	WV(V)	6.3		10		16, 25	
	Z(-25℃)/ Z(+20℃)	4		3		2	
	Z(-40)℃/ Z(+20℃)	8		6		4	
Load Life	After 2000hrs. application of the rated voltage at 85℃, they meet the characteristics listed below.						
	Capacitance change			Within ±25% 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 ther 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)



*1 Voltage mark for 6.3V is 【6V】

*2 Applicable to Φ6.3x7.7

DIMENSIONS (Unit: mm)

ΦDxL	4x5.4	5x5.4	6.3x5.4	6.3x7.7
A	2.0	2.2	2.6	2.6
B	4.3	5.3	6.6	6.6
C	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
H	0.5~0.8	0.5~0.8	0.5~0.8	0.5~0.8

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■ DIMENSIONS&MAXIMUM PERMISSIBLE RIPPLE CURRENT &ESR

<div>WV</div> <div>Parameter</div> <div>μF</div>		6.3(0J)			10(1A)			16(1C)		
		Case size ΦDxL (mm)	E.S.R.(Ω) 20℃,120Hz	Ripple current (mA rms) at 85℃,120Hz	Case size ΦDxL (mm)	E.S.R.(Ω) 20℃,120Hz	Ripple current (mA rms) at 85℃,120Hz	Case size ΦDxL (mm)	E.S.R.(Ω) 20℃,120Hz	Ripple current (mA rms) at 85℃,120Hz
10	100							4x5.4	34.5	25
22	220	4x5.4	23.5	31	5x5.4	19.6	35	5x5.4	15.7	39
33	330	5x5.4	15.7	39	5x5.4	13.1	43	6.3x5.4	10.5	57
47	470	5x5.4	11.0	47	6.3x5.4	9.2	59	6.3x5.4	7.3	68
100	101	6.3x5.4	5.2	75	6.3x5.4	4.3	76	6.3x7.7	3.5	96
220	221	6.3x7.7	2.4	85						

<div>WV</div> <div>Parameter</div> <div>μF</div>		25(1E)			35(1V)			50(1H)		
		Case size ΦDxL (mm)	E.S.R.(Ω) 20℃,120Hz	Ripple current (mA rms) at 85℃,120Hz	Case size ΦDxL (mm)	E.S.R.(Ω) 20℃,120Hz	Ripple current (mA rms) at 85℃,120Hz	Case size ΦDxL (mm)	E.S.R.(Ω) 20℃,120Hz	Ripple current (mA rms) at 85℃,120Hz
0.1	0R1							4x5.4	2156	1.0
0.22	R22							4x5.4	980	2.3
0.33	R33							4x5.4	653	3.5
0.47	R47							4x5.4	459	5
1	010							4x5.4	216	10
2.2	2R2							4x5.4	98	15
3.3	3R3							4x5.4	65	18
4.7	4R7	4x5.4	64.2	19	4x5.4	55.1	20	5x5.4	46	23
10	100	5x5.4	30.2	28	5x5.4	25.9	30	6.3x5.4	22	34
22	220	6.3x5.4	13.7	52	6.3x5.4	11.8	54	6.3x7.7	9.8	85
33	330	6.3x5.4	9.1	63	6.3x7.7	7.8	105			
47	470	6.3x7.7	6.4	100	6.3x7.7	5.5	110			

■ FREQUENCY COEFFICIENT OF ALLOWABLE RIPPLE CURRENT

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