SC Chip type, High CV Series

NC ⇦ **SC** ⇨ RC
Bi-polar / Wide temp

- Chip type higher capacitance in larger case sizes
- Designed for surface mounting on high density PC board
- Applicable to automatic mounting machine using carrier tape

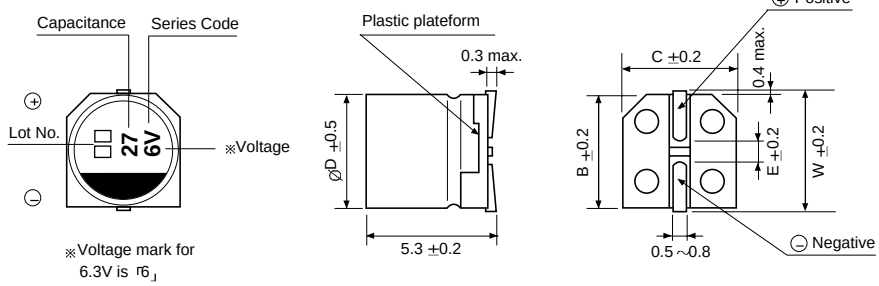
Solvent Proof

Item	Characteristics
Operating temperature range	-40 ~ +85℃
Leakage current max.	I = 0.01CV or 3μA whichever is greater (after 2 minutes) I = 0.03CV (after 1 minutes)
Capacitance tolerance	±20% at 120Hz, 20℃
Dissipation factor max. (at 120Hz, 20℃)	WV: 4 / 6.3 / 10 / 16 / 25 / 35 / 50 / 63 / 100 tanδ: 0.35 (0.40) / 0.28 (0.35) / 0.20 (0.24) / 0.16 (0.20) / 0.13 (0.16) / 0.12 (0.15) / 0.09 (0.12) / 0.12 / 0.12 Figures in( ) are for small size, over the 6.3 ×5.8(ØD ×L)
Low temperature characteristics (Impedance ratio at 120Hz)	WV: 4 / 6.3 / 10 / 16 / 25 / 35 / 50 ~ 100 Z-25℃/Z+20℃: 6 / 5 / 4 / 3 / 2 / 2 / 2 Z-40℃/Z+20℃: 12 / 10 / 8 / 6 / 4 / 3 / 3
Load life (after application of the rated voltage for 2000 hours at 85℃)	Leakage current: Less than specified value Capacitance change: Within ±20% of initial value (Small size : ±25%) tanδ: Less than 200% of specified value
Shelf life (at 85℃)	After 1000 hours no load test, leakage current, capacitance and tanδ are same as load life value.
Resistance to soldering heat	The following specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them at 250℃ for 30 seconds. Leakage current: Less than specified value Capacitance change: Within ±10% of initial value tanδ: Less than specified value

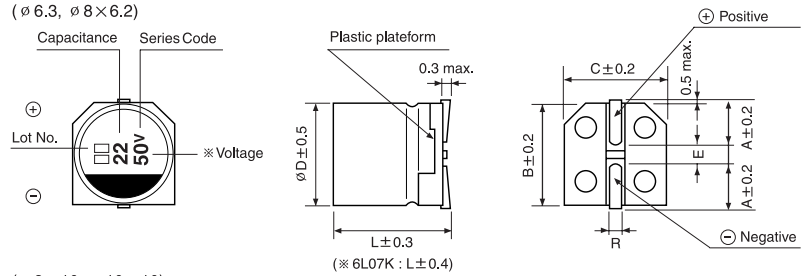
DRAWING

Unit : mm

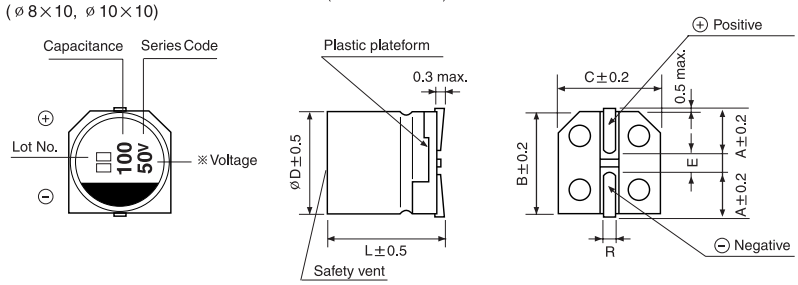
Ø4, Ø5, Ø6.3 ×5.3mmL



(ø 6.3, ø 8×6.2)



(ø 8×10, ø 10×10)



ØD×L	W	A	B	C	E	R
4 ×5.3	4.8		4.3	4.3	1.0	0.5~0.8
5 ×5.3	6.0		5.3	5.3	1.4	0.5~0.8
6.3 ×5.3	7.1		6.6	6.6	2.2	0.5~0.8
6.3 ×5.8		2.4	6.6	6.6	2.2	0.5~0.8
6.3 ×7.7		2.4	6.6	6.6	2.2	0.5~0.8
8 ×6.2		3.3	8.3	8.3	2.3	0.5~0.8
8 ×10		2.9	8.3	8.3	3.1	0.8~1.1
10 ×10		3.2	10.3	10.3	4.5	0.8~1.1

SURFACE MOUNT ALUMINUM ELECTROLYTIC CAPACITORS

SC series

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

WV / μF	4		6.3		10		16		25		35		50		63		100	
0.1													3×5.3	2.4				
													4×5.3	3.2				
0.22													3×5.3	3.5				
													4×5.3	4.7				
0.33													3×5.3	4.3				
													4×5.3	5.7				
0.47													3×5.3	5.2				
													4×5.3	6.8				
1.0													3×5.3	7.5				
													4×5.3	10				
2.2											3×5.3	10						
											4×5.3	11	4×5.3	14.8				
3.3									3×5.3	12							6.3×5.8	29
									4×5.3	15	4×5.3	16	4×5.3	18.1				
4.7							3×5.3	13			4×5.3	19	4×5.3	24			6.3×5.8	35
							4×5.3	16	4×5.3	18			5×5.3	25	6.3×5.8	31	8×6.2	40
10	3×5.3	13	3×5.3	16					4×5.3	24	4×5.3	27	5×5.3	41				
	4×5.3	16	4×5.3	19	4×5.3	21	4×5.3	21	5×5.3	30	5×5.3	32	6.3×5.3	42.6	8×6.2	46	8×10	77
22	3×5.3	19			4×5.3	28	4×5.3	30	5×5.3	41	6.3×5.3	55	6.3×5.3	71				
	4×5.3	24	4×5.3	29	5×5.3	36	5×5.3	41	6.3×5.3	53			6.3×5.8	73	8×10	96	8×10	100
33	4×5.3	29	4×5.3	30	4×5.3	34	5×5.3	43	5×5.3	50	6.3×5.3	65	6.3×5.8	94				
			5 5.3	41	5×5.3	44	6.3×5.3	58	6.3×5.3	64	6.3×5.8	67	8×6.2	95	8×10	117	10×10	130
47	4×5.3	35	4×5.3	36	5×5.3	47	5×5.3	52	6.3×5.3	70	6.3×7.7	94	6.3×7.7	105				
			5×5.3	48	6.3×5.3	62	6.3×5.3	69	6.3×5.8	72	8×6.2	105	8×10	140	8×10	140	10×10	155
100	5×5.3	54	5×5.3	60	6.3×5.3	80	6.3×5.3	88			6.3×7.7	132	8×10	181				
	6.3×5.3	68	6.3×5.3	82	6.3×5.8	82	6.3×5.8	91	8×6.2	145	8×10	175	10×10	195	10×10	232		
220	6.3×5.3	93	6.3×5.8	91	6.3×7.7	173	6.3×7.7	162	8×10	232	10×10	265						
					8×6.2	175	8×10	215	10×10	250								
330			6.3×7.7	188					10×10	305								
			8×6.2	190	8×10	240	8×10	270										
470			8×10	265	8×10	290	8×10	307										
							10×10	330										
1000			8×10	372	10×10	454												
			10×10	400														

Ripple current (mA rms) at 85℃, 120Hz
Case size ØD×L (mm)