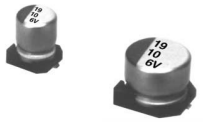
SC Chip type, Standard Series

Solvent Proof
WV≦100V

- Chip type higher capacitance in larger case size
- Designed for surface mounting on high density PC board
- Applicable to automatic insertion machine using carrier tape
- Complied to the RoHS directive

NC ⇦ SC ⇨ RC
Non-polar / Wide temp

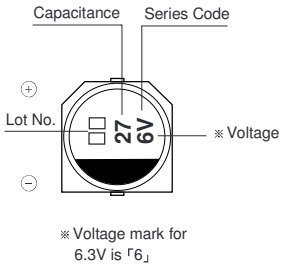


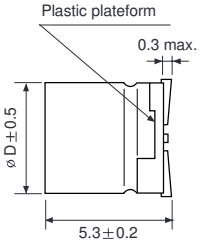
Item	Characteristics
Operating temperature range	-40 ~ +85°C
Leakage current max.	WV≦100 I = 0.01CV or 3μA whichever is greater (after 2 minutes) WV≧160 I = 0.04CV + 100μA(after 1 minutes)
Capacitance tolerance	±20% at 120Hz, 20°C
Dissipation factor max. (at 120Hz, 20°C)	WV: 4 / 6.3 / 10 / 16 / 25 / 35 / 50 / 63 / 100 / 160 / 200 / 250 / 400 / 450 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 / 0.20 / 0.20 / 0.20 / 0.25 / 0.25 Figures in( ) are for small size, over the 6.3×5.8(ø D×L)
Low temperature characteristics (Impedance ratio at 120Hz)	WV: 4 / 6.3 / 10 / 16 / 25 / 35 ~ 100 / 160 ~ 250 / 400 ~ 450 Z-25°C/Z+20°C: 6 / 5 / 4 / 3 / 2 / 2 / 3 / 6 Z-40°C/Z+20°C: 12 / 10 / 8 / 6 / 4 / 3 / 6 / 10
Load life (after application of the rated voltage for 2000 hours at 85°C)	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°C)	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°C after exposing them at 250°C for 30 seconds. Leakage current: Less than specified value Capacitance change: Within ±10% of initial value tanδ: Less than specified value

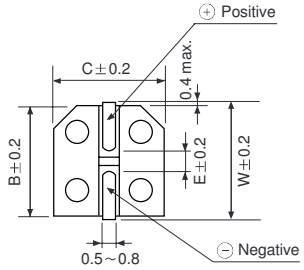
DRAWING

Unit : mm

(ø4, ø5, ø6.3×5.3mmL)

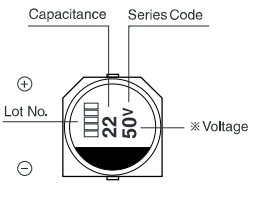


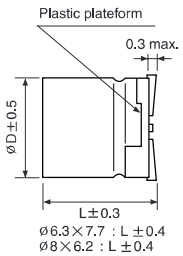


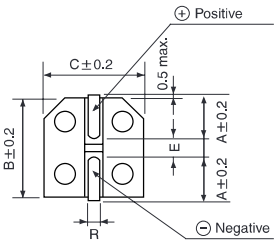


ø D×L	W	A	B	C	E	R
4×5.3	4.8		4.3	4.3	1.0	0.5~0.8
5×5.3	6.0		5.3	5.3	1.4	0.5~0.8
6.3×5.3	7.1		6.6	6.6	2.2	0.5~0.8
6.3×5.8		2.4	6.6	6.6	2.2	0.5~0.8
6.3×7.7		2.4	6.6	6.6	2.2	0.5~0.8
8×6.2		3.3	8.3	8.3	2.3	0.5~0.8
8×10		2.9	8.3	8.3	3.1	0.8~1.1
10×10		3.2	10.3	10.3	4.5	0.8~1.1
12.5×13.5		4.6	12.8	12.8	4.5	1.1~1.4

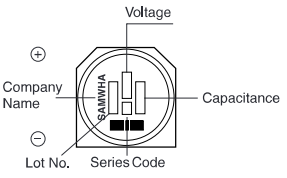
(ø6.3, ø8×6.2)



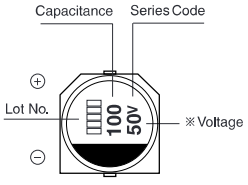


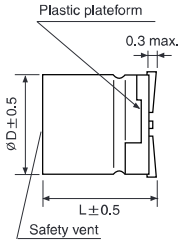


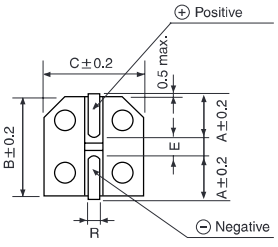
(ø12.5×13.5mmL)

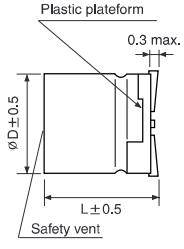


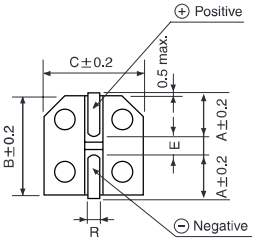
(ø8×10, ø10×10)











SC series

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

WV / μF	4		6.3		10		16		25		35		50	
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	15
											4×5.3	11		
3.3									3×5.3	12	4×5.3	16	4×5.3	18
									4×5.3	15				
4.7							3×5.3	13	4×5.3	18	4×5.3	19	4×5.3	24
							4×5.3	16					5×5.3	25
10	3×5.3	13	3×5.3	16	4×5.3	21	4×5.3	21	4×5.3	24	4×5.3	27	5×5.3	41
	4×5.3	16	4×5.3	19					5×5.3	30	5×5.3	32	6.3×5.3	43
22	3×5.3	19	4×5.3	29	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			5×5.3	36	5×5.3	41	6.3×5.3	53			6.3×5.8	73
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	6.3×7.7	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
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
100	5×5.3	54	5×5.3	60	6.3×5.3	80	6.3×5.3	88	8×6.2	145	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			8×10	175	10×10	195
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	10×10	320
					8×6.2	175	8×10	215	10×10	250				
330			6.3×7.7	188	8×10	240	8×10	270	10×10	305	10×10	360	12.5×13.5	600
			8×6.2	190										
470			8×10	265	8×10	290	8×10	307	10×10	400	12.5×13.5	600		
							10×10	330						
1000			8×10	370	10×10	454	12.5×13.5	710	12.5×13.5	820				
			10×10	400										
1500			10×10	480	12.5×13.5	850								
2200			12.5×13.5	890	12.5×13.5	960								

WV / μF	63		100		160		200		250		400		450	
2.2													10×10	85
3.3			6.3×5.8	29							10×10	90	10×10	100
4.7	6.3×5.8	31	6.3×5.8	35			10×10	100	10×10	100	12.5×13.5	115	12.5×13.5	115
			8×6.2	40										
10	8×5.8	46	8×10	77	10×10	100	12.5×13.5	150	12.5×13.5	150				
22	8×6.2	96	8×10	100	12.5×13.5	240	12.5×13.5	260						
33	8×10	117	10×10	130	12.5×13.5	260	← Ripple current (mA rms) at 85°C, 120Hz							
47	10×10	140	10×10	155			← Case size ⌀D×L (mm)							
68	10×10	160	12.5×13.5	350										
100	12.5×13.5	370												