

UPGRADE

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



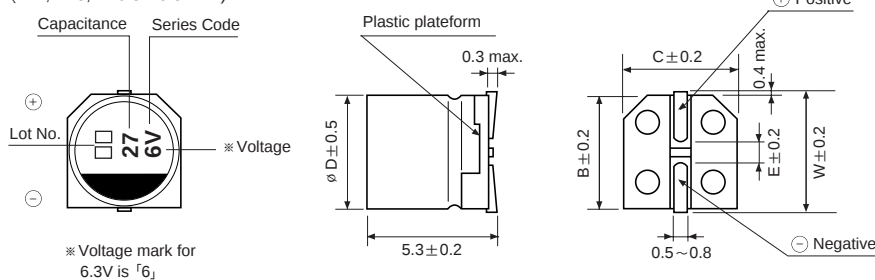
CHIP TYPES

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	
	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)	
	WV	63	100	160	200	250	400	450	
	tanδ	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

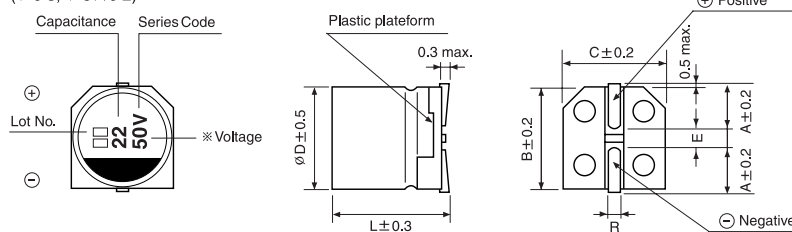
Unit : mm

(ø 4, ø 5, ø 6.3 × 5.3mmL)

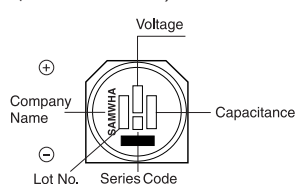


ø D × L	W	A	B	C	E	R
4 × 5.3	4.8		4.3	4.3	1.0	0.5~0.8
5 × 5.3	6.0		5.3	5.3	1.4	0.5~0.8
6.3 × 5.3	7.1		6.6	6.6	2.2	0.5~0.8
6.3 × 5.8		2.4	6.6	6.6	2.2	0.5~0.8
6.3 × 7.7		2.4	6.6	6.6	2.2	0.5~0.8
8 × 6.2		3.3	8.3	8.3	2.3	0.5~0.8
8 × 10		2.9	8.3	8.3	3.1	0.8~1.1
10 × 10		3.2	10.3	10.3	4.5	0.8~1.1
12.5 × 13.5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

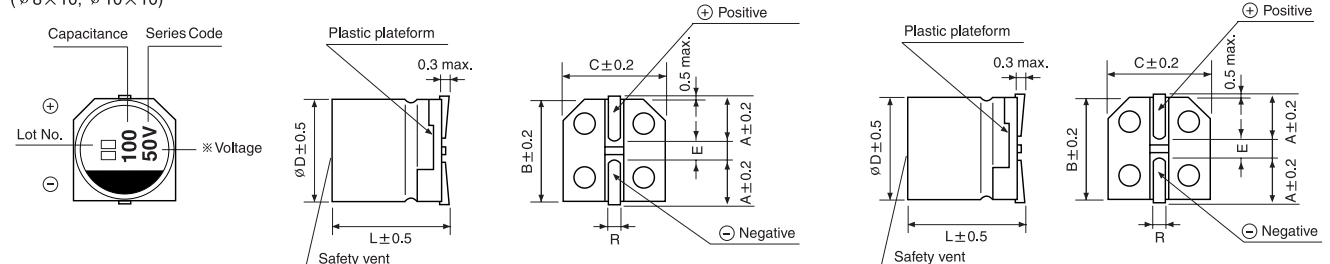
(ø 6.3, ø 8 × 6.2)



(ø 12.5 × 13.5mmL)



(ø 8 × 10, ø 10 × 10)



SURFACE MOUNT ALUMINUM ELECTROLYTIC CAPACITORS

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	6.3×5.8	94
			5×5.3	41	5×5.3	44	6.3×5.3	58	6.3×5.3	64	6.3×5.3	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	6.3×5.8	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 — Case size Ø D × L (mm)							
47	10×10	140	10×10	155	12.5×13.5	260								
68	10×10	160	12.5×13.5	350										
100	12.5×13.5	370												