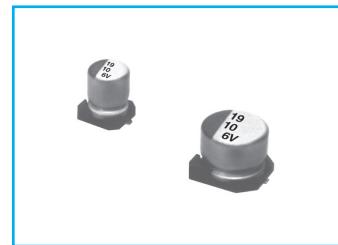
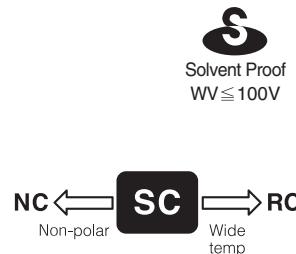


# SURFACE MOUNT ALUMINUM ELECTROLYTIC CAPACITORS



## SC Chip type, Standard Series

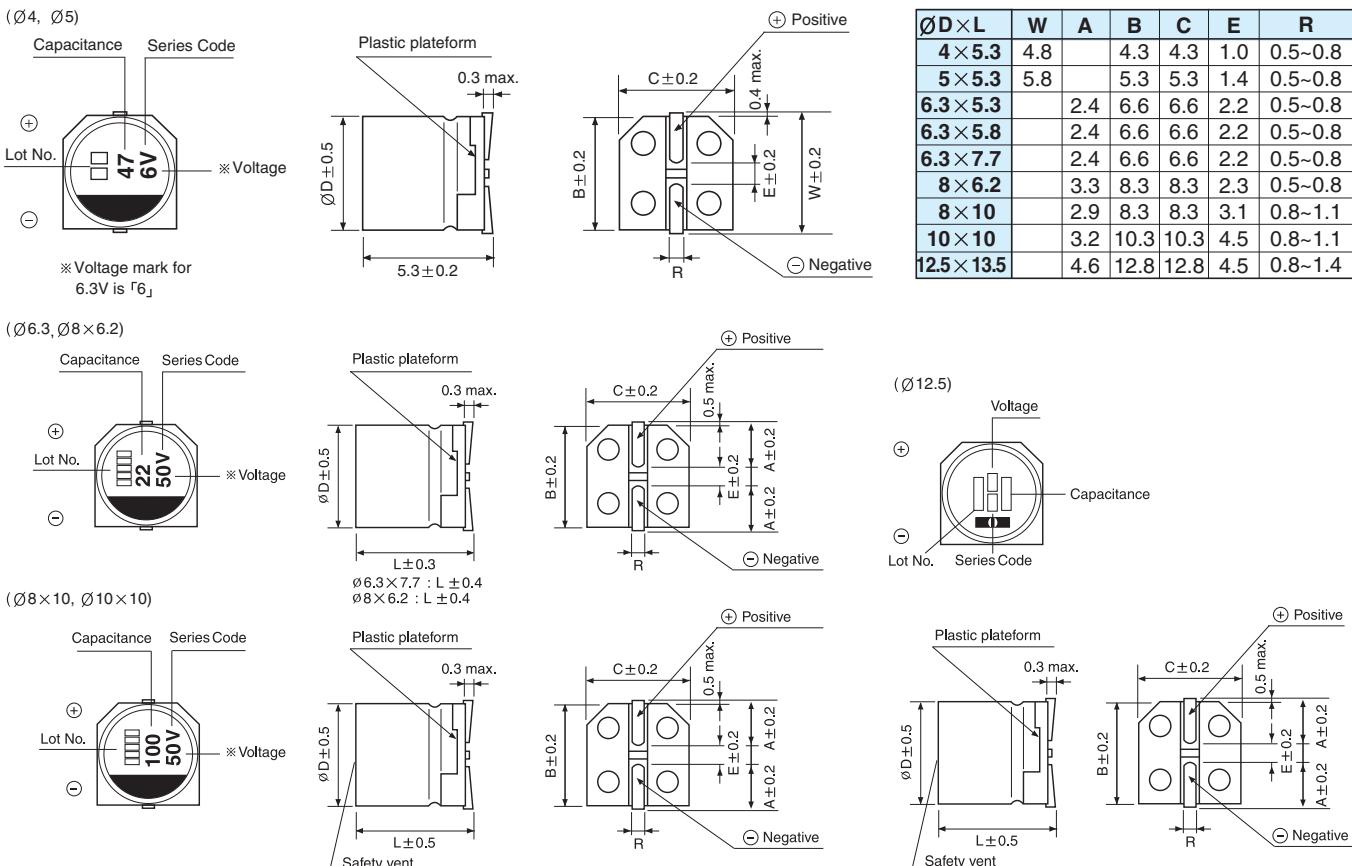
- Chip type higher capacitance in larger case sizes
- Designed for surface mounting on high density PC board
- Applicable to automatic insertion machine using carrier tape
- Complied to the RoHS directive



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												
	$\tan\delta$	0.40	0.35	0.24	0.20	0.16	0.15	0.12	0.12	0.12	0.20	0.20	0.20	0.25	0.25												
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	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%)																									
	$\tan\delta$	Less than 200% of the specified value																									
Shelf life(at 85°C)	After 1000 hours no load test, leakage current, capacitance and $\tan\delta$ are same as load life value. The measurement shall be performed at 20°C by the KS C IEC 60384 - 4																										
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 10 seconds.																										
	Leakage current	Less than specified value																									
	Capacitance change	Within ±10% of initial value																									
	$\tan\delta$	Less than specified value																									

### DRAWING -Series code of SC is "V"

Unit : mm



# SURFACE MOUNT ALUMINUM ELECTROLYTIC CAPACITORS

## SC series

### ● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

$\mu\text{F}$	WV	4	6.3	10	16	25	35	50
0.1								$4 \times 5.3$ 3.2
0.22								$4 \times 5.3$ 4.7
0.33								$4 \times 5.3$ 5.7
0.47								$4 \times 5.3$ 6.8
1.0								$4 \times 5.3$ 10
2.2							$4 \times 5.3$ 11	$4 \times 5.3$ 15
3.3						$4 \times 5.3$ 15	$4 \times 5.3$ 16	$4 \times 5.3$ 18
4.7					$4 \times 5.3$ 16	$4 \times 5.3$ 18	$4 \times 5.3$ 19	$4 \times 5.3$ 24 $5 \times 5.3$ 25
10	$4 \times 5.3$	16	$4 \times 5.3$	19	$4 \times 5.3$ 21	$4 \times 5.3$ 21	$4 \times 5.3$ 24	$5 \times 5.3$ 41
22	$4 \times 5.3$	24	$4 \times 5.3$	29	$4 \times 5.3$ 28	$4 \times 5.3$ 30	$5 \times 5.3$ 30	$5 \times 5.3$ 32
					$5 \times 5.3$ 36	$5 \times 5.3$ 41	$6.3 \times 5.3$ 53	$6.3 \times 5.3$ 55
33	$4 \times 5.3$	29	$4 \times 5.3$ 30	$4 \times 5.3$ 34	$5 \times 5.3$ 43	$5 \times 5.3$ 50	$6.3 \times 5.3$ 65	$6.3 \times 7.7$ 94
			$5 \times 5.3$ 41	$5 \times 5.3$ 44	$6.3 \times 5.3$ 58	$6.3 \times 5.3$ 64	$6.3 \times 5.8$ 67	$8 \times 6.2$ 95
47	$4 \times 5.3$	35	$4 \times 5.3$ 36	$5 \times 5.3$ 47	$5 \times 5.3$ 52	$6.3 \times 5.3$ 70	$6.3 \times 7.7$ 94	$6.3 \times 7.7$ 105
			$5 \times 5.3$ 48	$6.3 \times 5.3$ 62	$6.3 \times 5.3$ 69	$6.3 \times 5.8$ 72	$8 \times 6.2$ 105	$8 \times 10$ 140
100	$5 \times 5.3$	54	$5 \times 5.3$ 60	$6.3 \times 5.3$ 80	$6.3 \times 5.3$ 88		$6.3 \times 7.7$ 132	$8 \times 10$ 181
	$6.3 \times 5.3$	68	$6.3 \times 5.3$ 82	$6.3 \times 5.8$ 82	$6.3 \times 5.8$ 91		$8 \times 10$ 175	$10 \times 10$ 195
220	$6.3 \times 5.3$	93	$6.3 \times 5.8$	91	$6.3 \times 7.7$ 173	$6.3 \times 7.7$ 162	$8 \times 10$ 232	
					$8 \times 6.2$ 175	$8 \times 10$ 215	$10 \times 10$ 250	$10 \times 10$ 320
330			$6.3 \times 7.7$ 188	$8 \times 10$ 240	$8 \times 10$ 270	$10 \times 10$ 305	$10 \times 10$ 360	$12.5 \times 13.5$ 600
			$8 \times 6.2$ 190					
470			$8 \times 10$ 265	$8 \times 10$ 290	$8 \times 10$ 307			
					$10 \times 10$ 330	$10 \times 10$ 400	$12.5 \times 13.5$ 600	
1000			$8 \times 10$ 370					
			$10 \times 10$ 400					
1500			$10 \times 10$ 480	$12.5 \times 13.5$ 850	$12.5 \times 13.5$ 870			
2200			$12.5 \times 13.5$ 890	$12.5 \times 13.5$ 960				
								Ripple current (mA rms) at 85°C, 120Hz Case size ØD x L (mm)

## SC series

### ● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

$\mu\text{F}$	WV	63	100	160	200	250	400	450		
2.2									10×10	85
3.3			6.3×5.8	29					10×10	90
4.7	6.3×5.8	31	6.3×5.8	35		10×10	100	10×10	115	12.5×13.5
			8×6.2	40		10×10	100	12.5×13.5	115	12.5×13.5
10	6.3×5.8	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				
47	10×10	140	10×10	155						
68	10×10	160	12.5×13.5	350						
100	12.5×13.5	370	12.5×13.5	420						
220	12.5×13.5	550								

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

### ● FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

Frequency	50Hz	120Hz	300Hz	1kHz	10kHz $\leq$
Coefficient	0.70	1.00	1.17	1.36	1.50