

MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

SC Chip type, For Surface Mounting Series

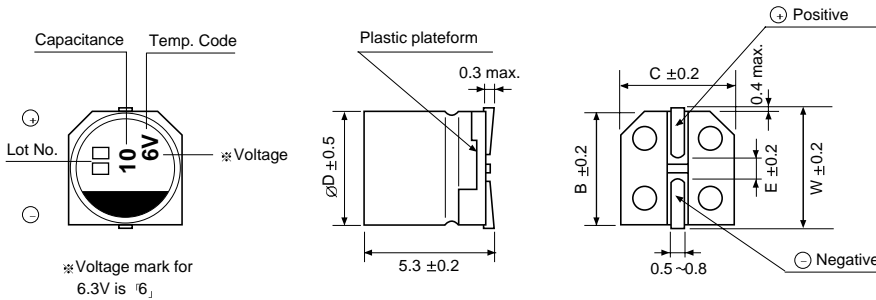
- Chip type with 5.5mm height
- Designed for surface mounting on high density PC board
- Applicable to automatic insertion machine using carrier tape



Item	Characteristics																								
Operating temperature range	-40 ~ +85 °C																								
Leakage current max.	$I = 0.01CV$ or $3\mu A$ whichever is greater (after 2 minutes)																								
Capacitance tolerance	$\pm 20\%$ at 120Hz, 20 °C																								
Dissipation factor max. (at 120Hz, 20 °C)	<table border="1"> <thead> <tr> <th>WV</th> <th>4</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>$\tan \delta$</td> <td>0.35(0.40)</td> <td>0.24(0.30)</td> <td>0.20</td> <td>0.16(0.19)</td> <td>0.13(0.16)</td> <td>0.12(0.14)</td> <td>0.09(0.14)</td> </tr> </tbody> </table>	WV	4	6.3	10	16	25	35	50	$\tan \delta$	0.35(0.40)	0.24(0.30)	0.20	0.16(0.19)	0.13(0.16)	0.12(0.14)	0.09(0.14)								
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Figures in () are for $\phi 3$ products.																									
Low temperature characteristics (Impedance ratio at 120Hz)	<table border="1"> <thead> <tr> <th>WV</th> <th>4</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>Z-25 °C/Z+20 °C</td> <td>6</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z-40 °C/Z+20 °C</td> <td>12</td> <td>8</td> <td>6</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> </tr> </tbody> </table>	WV	4	6.3	10	16	25	35	50	Z-25 °C/Z+20 °C	6	4	3	2	2	2	2	Z-40 °C/Z+20 °C	12	8	6	4	4	4	4
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Load life (after application of the rated voltage for 2000 hours at 85 °C)	Leakage current	Less than specified value																							
	Capacitance change	Within $\pm 20\%$ of initial value																							
	$\tan \delta$	Less than 200% of 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.																								
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 $\pm 10\%$ of initial value																							
	$\tan \delta$	Less than specified value																							

DRAWING

Unit : mm



ϕD	W	B	C	E
3	3.9	3.3	3.3	0.8
4	5.0	4.3	4.3	1.0
5	6.0	5.3	5.3	1.4
6.3	7.3	6.6	6.6	2.2

DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

μF	WV	4	6.3	10	16	25	35	50
0.1								4(3) 3.2(2.4)
0.22								4(3) 4.7(3.5)
0.33								4(3) 5.7(4.3)
0.47								4(3) 6.8(5.2)
1.0								4(3) 10.0(7.5)
2.2							4(3) 11(10)	4 14.8
3.3						4(3) 15(12)	4 16	4 18.1
4.7					4(3) 16(13)	4 18	4 19	5 25.0
10	4(3) 16(13)	4(3) 19(16)	4 21	4 24	5 30	5 32	6.3 42.6	
22	4(3) 24(19)	4 29	5 36	5 41	6.3 53	6.3 55		
33	4 29	5 41	5 44	6.3 58	6.3 64			
47	4 35	5 48	6.3 62	6.3 69				
100	6.3 68	6.3 82						
150	6.3 84							

↑ Ripple current (mA rms) at 85 °C, 120Hz
 Case size ϕD (mm)