

SURFACE MOUNT ALUMINUM ELECTROLYTIC CAPACITORS



Upgrade



Chip type, Extremely Low Impedance Series



Low Impedance



Solvent Proof



- Chip type, low impedance temperature range up to 105°C
- Designed for surface mounting on high density PC board
- Applicable to automatic insertion machine using carrier tape
- Complied to the RoHS directive



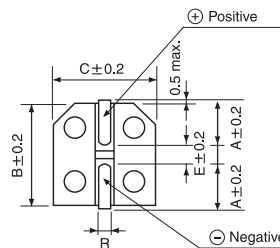
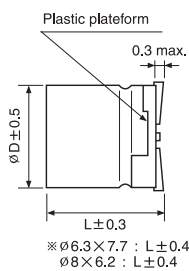
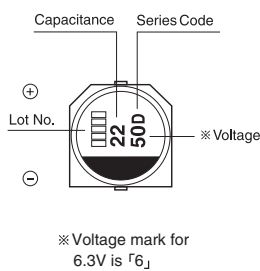
Item	Characteristics																								
Operating temperature range	-55 ~ +105°C																								
Leakage current max.	$I = 0.01CV$ or $3\mu A$ whichever is greater (after 2 minutes)																								
Capacitance tolerance	$\pm 20\%$ at 120Hz, 20°C																								
Dissipation factor max. (at 120Hz, 20°C)	<table border="1"> <tr> <td>WV</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>80</td> <td>100</td> </tr> <tr> <td>tanδ</td> <td>0.24</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.12</td> <td>0.10</td> <td>0.10</td> <td>0.10</td> </tr> </table>	WV	6.3	10	16	25	35	50	63	80	100	tan δ	0.24	0.19	0.16	0.14	0.12	0.12	0.10	0.10	0.10				
	WV	6.3	10	16	25	35	50	63	80	100															
tan δ	0.24	0.19	0.16	0.14	0.12	0.12	0.10	0.10	0.10																
Low temperature characteristics (Impedance ratio at 120Hz)	<table border="1"> <tr> <td>WV</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63 ~ 100</td> </tr> <tr> <td>Z-25°C/Z+20°C</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>3</td> </tr> <tr> <td>Z-55°C/Z+20°C</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>4</td> </tr> </table>	WV	6.3	10	16	25	35	50	63 ~ 100	Z-25°C/Z+20°C	2	2	2	2	2	2	3	Z-55°C/Z+20°C	3	3	3	3	3	3	4
	WV	6.3	10	16	25	35	50	63 ~ 100																	
	Z-25°C/Z+20°C	2	2	2	2	2	2	3																	
Z-55°C/Z+20°C	3	3	3	3	3	3	4																		
Load life (after application of the rated voltage for 2000 hours at 105°C)	Leakage current	Less than specified value																							
	Capacitance change	Within $\pm 25\%$ of initial value																							
	tan δ	Less than 200% of specified value																							
Shelf life (at 105°C)	After 1000 hours no load test, leakage current, capacitance and tan δ 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 $\pm 10\%$ of initial value																							
	tan δ	Less than specified value																							

DRAWING

Unit : mm

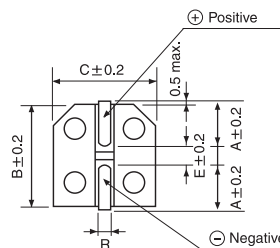
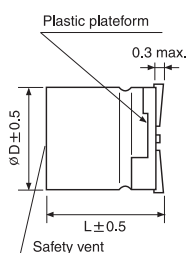
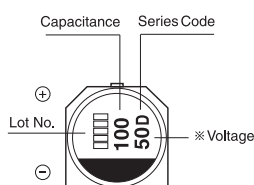
-Series code of CD is "D"

($\varnothing 6.3 \times 5.8$, 7.7 , $\varnothing 8 \times 6.2$)



$\varnothing D$	A	B	C	E	R
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

($\varnothing 8 \times 10$, $\varnothing 10 \times 10$)



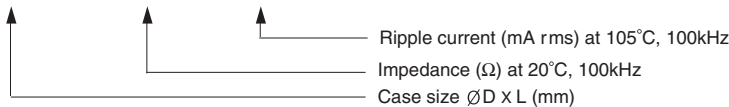
SURFACE MOUNT ALUMINUM ELECTROLYTIC CAPACITORS

CD series

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

μF \diagdown WV	6.3			10			16			25			35			50		
10																6.3×5.8	0.92	170
15																6.3×5.8	0.79	170
22																6.3×5.8	0.79	170
33							6.3×5.8	0.39	384	6.3×5.8	0.39	384	6.3×5.8	0.43	384	6.3×7.7	0.61	280
																8×6.2	0.58	300
47				6.3×5.8	0.36	384	6.3×5.8	0.39	384	6.3×5.8	0.39	384	6.3×5.8	0.43	384	6.3×7.7	0.61	280
																8×6.2	0.58	300
68	6.3×5.8	0.40	384	6.3×5.8	0.36	384	6.3×5.8	0.36	384	6.3×5.8	0.36	384	6.3×7.7	0.29	600	8×10	0.29	350
100	6.3×5.8	0.40	384	6.3×5.8	0.36	384	6.3×5.8	0.36	384	6.3×7.7	0.29	600	8×10	0.15	960	10×10	0.18	700
										8×6.2	0.24	500						
150	6.3×5.8	0.40	384	6.3×5.8	0.36	384	6.3×7.7	0.29	600	8×10	0.15	960	8×10	0.15	960			
220	6.3×5.8	0.40	384	6.3×7.7	0.32	600	6.3×7.7	0.29	600	8×10	0.15	960	10×10	0.09	1360			
				8×6.2	0.24	500	8×6.2	0.24	500									
330	6.3×7.7	0.29	600	8×10	0.15	960	8×10	0.15	960	10×10	0.09	1360						
	8×6.2	0.24	500															
470	8×10	0.15	960	8×10	0.15	960	10×10	0.07	1360									
680	8×10	0.15	960	10×10	0.07	1360												
1000	10×10	0.07	1360															
1500	10×10	0.07	1360															

μF \diagdown WV	63			80			100		
10	6.3×5.8	2.30	80	6.3×7.7	2.16	60			
22	6.3×7.7	1.90	120	8×10	1.17	130	8×10	1.80	130
33	8×10	0.80	250	8×10	1.17	130	10×10	1.35	200
47	8×10	0.80	250	10×10	1.08	200	12.5×13.5	0.90	500
68	10×10	0.70	400	12.5×13.5	0.70	500	12.5×13.5	0.90	500
100	10×10	0.70	400	12.5×13.5	0.70	500			
150	12.5×13.5	0.54	800	12.5×13.5	0.70	500			
220	12.5×13.5	0.54	800						



● FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

Frequency	50Hz	120Hz	300Hz	1kHz	10kHz \leq
Coefficient	0.35	0.5	0.64	0.83	1.00