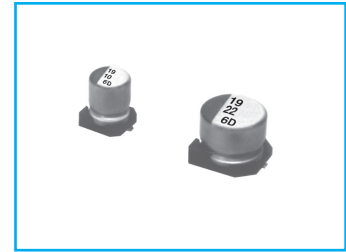


SURFACE MOUNT ALUMINUM ELECTROLYTIC CAPACITORS

Upgrade



Chip type, Extremely Low Impedance Series



- 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



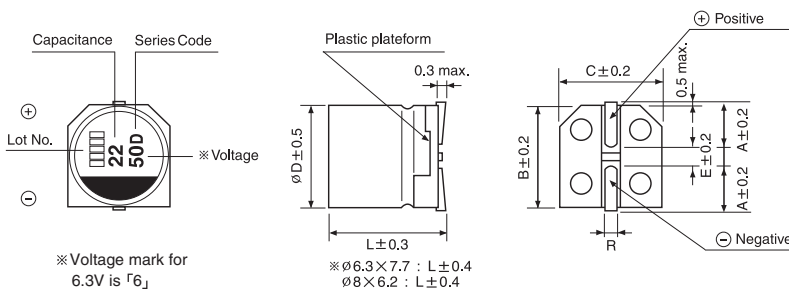
Item	Characteristics																					
Operating temperature range	-55 ~ +105°C																					
Leakage current max.	$I = 0.01CV$ or $3\mu A$ whichever is greater (after 2 minutes)																					
Capacitance tolerance	$\pm 20\%$ at 120Hz, 20°C																					
Dissipation factor max. (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> </tr> <tr> <td>$\tan\delta$</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> </tr> </table>	WV	6.3	10	16	25	35	50	$\tan\delta$	0.24	0.19	0.16	0.14	0.12	0.12							
	WV	6.3	10	16	25	35	50															
$\tan\delta$	0.24	0.19	0.16	0.14	0.12	0.12																
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> </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> </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> </tr> </table>	WV	6.3	10	16	25	35	50	Z-25°C/Z+20°C	2	2	2	2	2	2	Z-55°C/Z+20°C	3	3	3	3	3	3
WV	6.3	10	16	25	35	50																
Z-25°C/Z+20°C	2	2	2	2	2	2																
Z-55°C/Z+20°C	3	3	3	3	3	3																
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																				
	$\tan\delta$	Less than 200% of specified value																				
Shelf life (at 105°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 $\pm 10\%$ of initial value																				
	$\tan\delta$	Less than specified value																				

DRAWING

Unit : mm

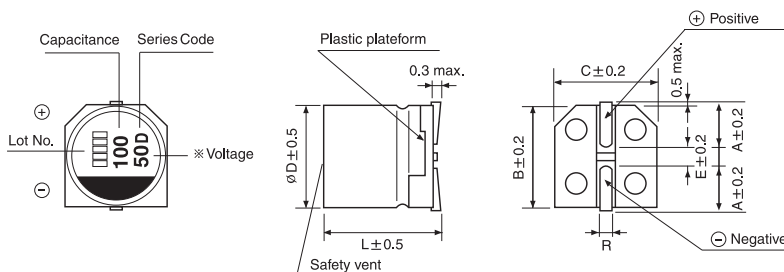
-Series code of CD is "D"

($\varnothing 6.3 \times 5.8$, 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

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



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	0.40	240	6.3×5.8	0.40	240	6.3×5.8	0.40	240	6.3×7.7	0.61	280
																8×6.2	0.58	300
47				6.3×5.8	0.40	240	6.3×5.8	0.40	240	6.3×5.8	0.40	240	6.3×5.8	0.40	240	6.3×7.7	0.61	280
																8×6.2	0.58	300
68	6.3×5.8	0.40	240	6.3×5.8	0.36	240	6.3×5.8	0.36	240	6.3×5.8	0.36	240	6.3×7.7	0.29	290	8×10	0.29	350
100	6.3×5.8	0.40	240	6.3×5.8	0.36	240	6.3×5.8	0.36	240	6.3×7.7	0.29	290	8×10	0.15	600	10×10	0.18	700
										8×6.2	0.24	300						
150	6.3×5.8	0.40	240	6.3×5.8	0.36	240	6.3×7.7	0.29	290	8×10	0.15	600	8×10	0.15	600			
220	6.3×5.8	0.40	240	6.3×7.7	0.33	290	6.3×7.7	0.29	290	8×10	0.15	600	10×10	0.09	850			
				8×6.2	0.24	300	8×6.2	0.24	300									
330	6.3×7.7	0.29	290	8×10	0.15	600	8×10	0.15	600	10×10	0.09	850						
	8×6.2	0.24	300															
470	8×10	0.15	600	8×10	0.15	600	10×10	0.07	850	← Ripple current (mA rms) at 105°C, 100kHz								
680	8×10	0.15	600	10×10	0.07	850	↑ Impedance (Ω) at 20°C, 100kHz											
1000	10×10	0.07	850	↑ Case size ØD × L (mm)														
1500	10×10	0.07	850															

CHIP TYPES

● **FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT**

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