

CD Chip type, Extremely Low Impedance Series

IZI Low Impedance **S** 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

CK → **CD**
Low Imp.

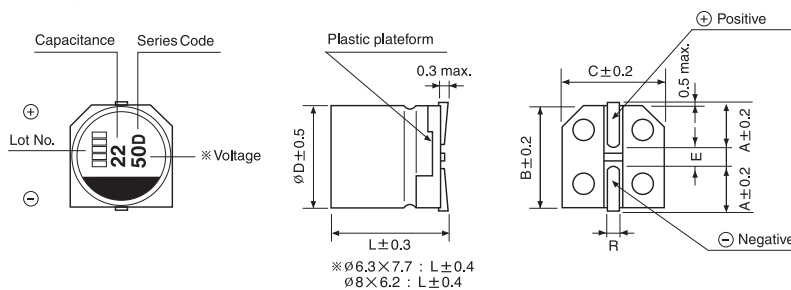
Item	Characteristics
Operating temperature range	-55 ~ +105°C
Leakage current max.	$I = 0.01CV$ or $3\mu A$ whichever is greater (after 2 minutes)
Capacitance tolerance	$\pm 20\%$ at 120Hz, 20°C
Dissipation factor max. (at 120Hz, 20°C)	WV 6.3 10 16 25 35 50
	tan δ 0.24 0.19 0.16 0.14 0.12 0.12
Low temperature characteristics (Impedance ratio at 120Hz)	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 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 6035 clause 5.4.
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

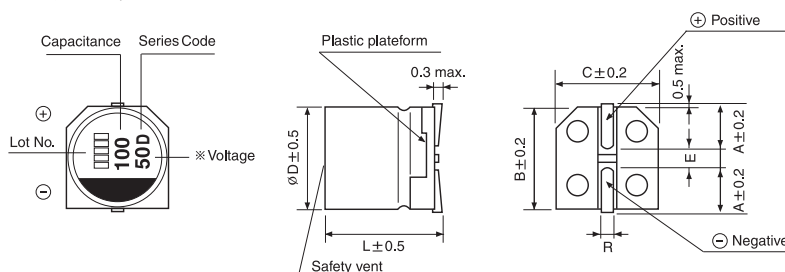
-Series code of CD is "D"

($\varnothing 6.3 \times 5.8$, 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

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



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	0.86	170
15																6.3×5.8	0.86	170
22																6.3×5.8	0.86	170
33							6.3×5.8	0.39	240	6.3×5.8	0.39	240	6.3×5.8	0.39	240	6.3×7.7	0.66	280
																8×6.2	0.63	300
47				6.3×5.8	0.39	240	6.3×5.8	0.39	240	6.3×5.8	0.39	240	6.3×5.8	0.39	240	6.3×7.7	0.66	280
																8×6.2	0.63	300
68	6.3×5.8	0.36	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	0.32	290	8×10	0.32	350
100	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	0.32	290	8×10	0.16	600	10×10	0.16	700
										8×6.2	0.26	300						
150	6.3×5.8	0.36	240	6.3×5.8	0.36	240	6.3×7.7	0.32	290	8×10	0.16	600	8×10	0.16	600			
220	6.3×5.8	0.36	240	6.3×7.7	0.32	290	6.3×7.7	0.32	290	8×10	0.16	600	10×10	0.08	850			
				8×6.2	0.26	300	8×6.2	0.26	300									
330	6.3×7.7	0.32	290	8×10	0.16	600	8×10	0.16	600	10×10	0.10	850						
	8×6.2	0.26	300															
470	8×10	0.16	600	8×10	0.16	600	10×10	0.08	850	← Ripple current (mA rms) at 105°C, 100kHz								
680	8×10	0.16	600	10×10	0.08	850				↑ Impedance (Ω) at 20°C, 100kHz								
1000	10×10	0.08	850							↑ Case size ØD x L (mm)								
1500	10×10	0.08	850															

● FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

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