

SURFACE MOUNT ALUMINUM ELECTROLYTIC CAPACITORS


CK

Chip type, Low Impedance, High CV
Series

LZI
Low Impedance

S
Solvent Proof

ZC → **CK**
Low Imp.

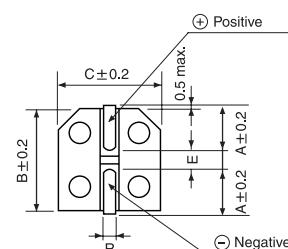
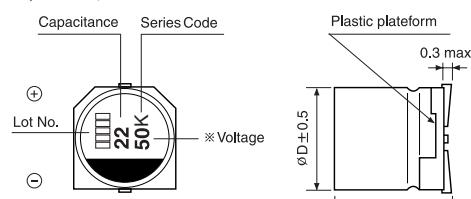

- Chip type, low impedance temperature range up to 105°C
- Designed for surface mounting on high density PC board
- Applicable to automatic insertion machine using carrier tape
- Complied to the RoHS directive

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)	WV	6.3	10	16	25	35	50	63	80	100									
	tanδ	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)	WV	6.3	10	16	25	35	50	63	80	100									
	Z-25°C/Z+20°C	2	2	2	2	2	2	2	2	3									
	Z-55°C/Z+20°C	3	3	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																	
	tanδ	Less than 200% of specified value																	
Shelf life (at 105°C)	After 1000 hours no load test, leakage current, capacitance and tanδ 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																	
	tanδ	Less than specified value																	

● DRAWING

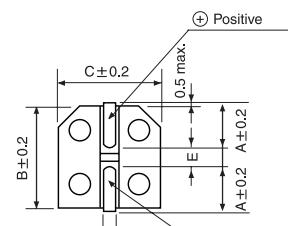
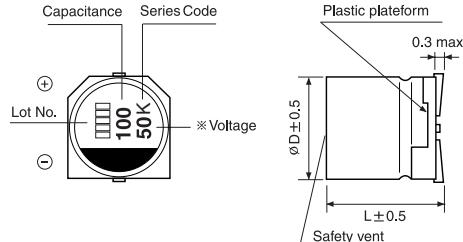
Unit : mm

(Ø6.3, Ø8×6.2)

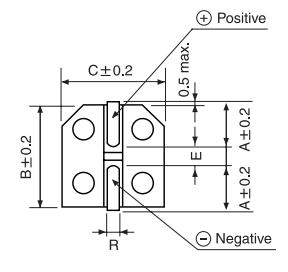
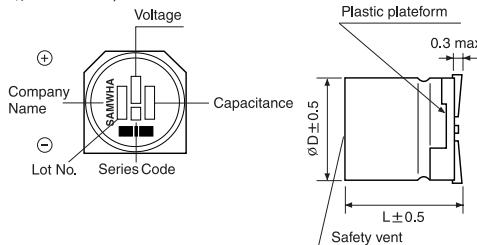


$\text{ØD} \times \text{L}$	W	A	B	C	E	R
6.3 × 5.8	7.1		6.6	6.6	2.2	0.5~0.8
6.3 × 7.7		2.4	6.6	6.6	2.2	0.5~0.8
8 × 6.2		3.3	8.3	8.3	2.3	0.5~0.8
8 × 10		2.9	8.3	8.3	3.1	0.8~1.1
10 × 10		3.2	10.3	10.3	4.5	0.8~1.1
12.5 × 13.5		4.6	12.8	12.8	4.5	1.1~1.4

(Ø8×10, Ø10×10)



(Ø12.5×13.5)



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CK series

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

μF	WV	6.3			10			16			25			35			50		
10																	6.3×5.8	0.88	165
15																	6.3×5.8	0.88	165
22																	6.3×5.8	0.88	165
33								6.3×5.8	0.44	230	6.3×5.8	0.44	230	6.3×5.8	0.44	230	6.3×7.7	0.68	280
																	8×6.2	0.63	300
47					6.3×5.8	0.44	230	6.3×5.8	0.44	230	6.3×5.8	0.44	230	6.3×5.8	0.44	230	6.3×7.7	0.68	280
																	8×6.2	0.63	300
68		6.3×5.8	0.44	230	6.3×5.8	0.44	230	6.3×5.8	0.44	230	6.3×5.8	0.44	230	6.3×7.7	0.34	280			
																	8×6.2	0.26	300
100		6.3×5.8	0.44	230	6.3×5.8	0.44	230	6.3×5.8	0.44	230	6.3×7.7	0.34	280				8×10	0.17	450
																	8×6.2	0.26	300
150		6.3×5.8	0.44	230	6.3×5.8	0.44	230	6.3×7.7	0.34	280				8×10	0.17	450			
																	8×6.2	0.26	300
220		6.3×5.8	0.44	230	6.3×7.7	0.34	280	6.3×7.7	0.34	280				8×10	0.17	450	10×10	0.09	670
330		6.3×7.7	0.34	280				8×10	0.17	450	8×10	0.17	450	10×10	0.09	670			
470		8×10	0.17	450	8×10	0.17	450	10×10	0.09	670									
680		8×10	0.17	450	10×10	0.09	670												
1000		10×10	0.09	670															
1500		10×10	0.09	670															

Ripple current (mA rms) at 105°C, 100kHz

Impedance (Ω) at 20°C, 100kHz

Case size $\text{\O}D \times L$ (mm)

μF	WV	63			80			100		
10		6.3×5.8	2.3	80	6.3×7.7	2.4	60			
22		6.3×7.7	2.1	120	8×10	1.3	130	8×10	1.3	130
33		8×10	0.7	250	8×10	1.3	130	10×10	0.7	200
47		8×10	0.7	250	10×10	0.7	200	12.5×13.5	0.35	500
68		10×10	0.45	400	12.5×13.5	0.35	500	12.5×13.5	0.35	500
100		10×10	0.45	400	12.5×13.5	0.35	500			
150		12.5×13.5	0.32	800	12.5×13.5	0.35	500			
220		12.5×13.5	0.32	800						