

CK Chip type, Low Impedance, High CV 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

zc → **CK**
Low Imp.

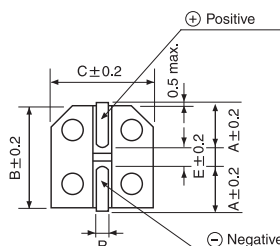
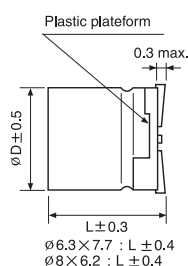
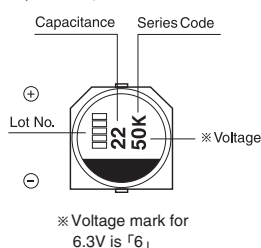


Item	Characteristics									
Operating temperature range	-55 ~ +105°C									
Leakage current max.	I = 0.01CV or 3 μ A whichever is greater (after 2 minutes)									
Capacitance tolerance	$\pm$ 20% at 120Hz, 20°C									
Dissipation factor max. (at 120Hz, 20°C)	WV	6.3	10	16	25	35	50	63	80	100
	tan 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)	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 -Series code of CK is "K"

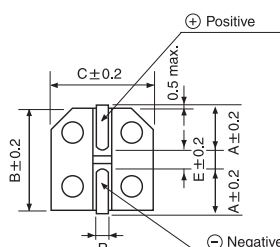
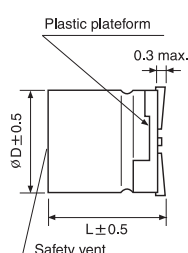
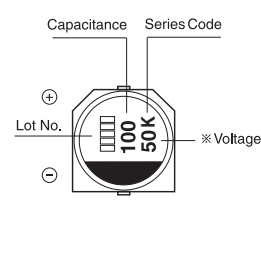
Unit : mm

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

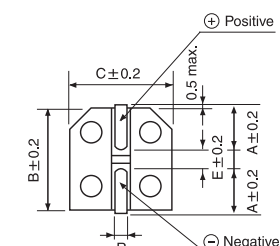
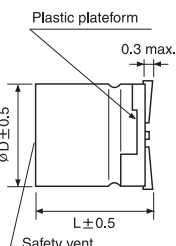
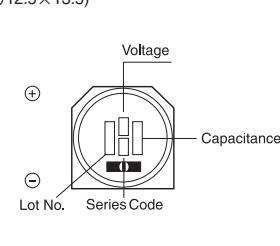


$\varnothing D \times L$	A	B	C	E	R
6.3×5.8	2.4	6.6	6.6	2.2	0.5~0.8
6.3×7.7	2.4	6.6	6.6	2.2	0.5~0.8
8×6.2	3.3	8.3	8.3	2.3	0.5~0.8
8×10	2.9	8.3	8.3	3.1	0.8~1.1
10×10	3.2	10.3	10.3	4.5	0.8~1.1
12.5×13.5	4.6	12.8	12.8	4.5	0.8~1.4

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



($\varnothing 12.5 \times 13.5$)



SURFACE MOUNT ALUMINUM ELECTROLYTIC CAPACITORS

CK series

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

μF \ WV	6.3			10			16			25			35			50		
10																6.3×5.8	1.0	165
15																6.3×5.8	1.0	165
22																6.3×5.8	1.0	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	8×10	0.34	450
													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	10×10	0.18	670
										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	8×10	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			
				8×6.2	0.26	300	8×6.2	0.26	300									
330	6.3×7.7	0.34	280	8×10	0.17	450	8×10	0.17	450	10×10	0.15	670						
	8×6.2	0.26	300															
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															

μF \ WV	63			80			100		
10	6.3×5.8	2.8	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	0.9	250	8×10	1.3	130	10×10	1.2	200
47	8×10	0.9	250	10×10	1.2	200	12.5×13.5	0.8	500
68	10×10	0.5	400	12.5×13.5	0.8	500	12.5×13.5	0.8	500
100	10×10	0.5	400	12.5×13.5	0.8	500			
150	12.5×13.5	0.32	800	12.5×13.5	0.8	500			
220	12.5×13.5	0.32	800						

↑ Ripple current (mA rms) at 105°C, 100kHz
 ↑ Impedance (Ω) at 20°C, 100kHz
 ↑ Case size $\varnothing D \times L$ (mm)

● FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

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