

SURFACE MOUNT ALUMINUM ELECTROLYTIC CAPACITORS



Chip type, Low Impedance, High CV
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

ZC → CK
Low Imp.

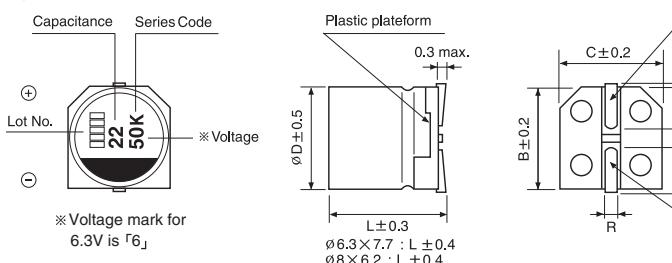


Item	Characteristics																		
Operating temperature range	-55 ~ +105°C																		
Leakage current max.	$I = 0.01CV$ or $3\mu A$ whichever is greater (after 2 minutes)																		
Capacitance tolerance	$\pm 20\%$ at 120Hz, 20°C																		
Dissipation factor max. (at 120Hz, 20°C)	WV	6.3	10	16	25	35	50	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	3	3									
	Z-55°C/Z+20°C	3	3	3	3	3	3	3	4	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. 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																	
	tanδ	Less than specified value																	

DRAWING -Series code of CK is "K"

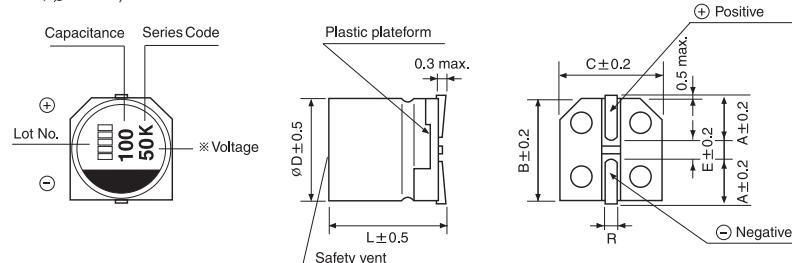
Unit : mm

(Ø6.3, Ø8×6.2)

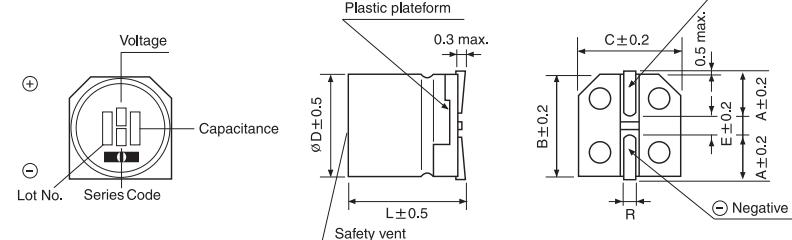


ØD×L	A	B	C	E	R
6.3×5.8	2.4	6.6	6.6	2.2	0.5~0.8
6.3×7.7	2.4	6.6	6.6	2.2	0.5~0.8
8×6.2	3.3	8.3	8.3	2.3	0.5~0.8
8×10	2.9	8.3	8.3	3.1	0.8~1.1
10×10	3.2	10.3	10.3	4.5	0.8~1.1
12.5×13.5	4.6	12.8	12.8	4.5	0.8~1.4

(Ø8×10, Ø10×10)



(Ø12.5)



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			
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			
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	8×6.2	0.63	300	
												6.3×7.7	0.34	280			
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	0.34	450	
												8×6.2	0.38	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	10×10	0.18	670	
												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	8×10	0.17	450	
					8×6.2	0.26	300	8×6.2	0.26	300	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	0.15	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	2.0	130
33		8×10	1.0	250	8×10	1.3	130	10×10	1.5	200
47		8×10	1.0	250	10×10	1.2	200	12.5×13.5	1.0	500
68		10×10	0.8	400	12.5×13.5	0.8	500	12.5×13.5	1.0	500
100		10×10	0.8	400	12.5×13.5	0.8	500			
150		12.5×13.5	0.6	800	12.5×13.5	0.8	500			
220		12.5×13.5	0.6	800						

Ripple current (mA rms) at 105°C, 100kHz
 Impedance (Ω) at 20°C, 100kHz
 Case size ØD × L (mm)

● FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

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