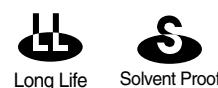


# CA

Chip type, Long Life, High CV  
Series



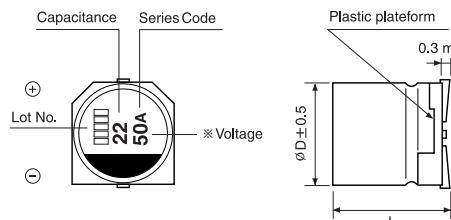
JC → CA  
Long life



- Chip type, long life capacitance in large case sizes
- Chip type with load life of 5000 hours at +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						
	$\tan\delta$	0.28	0.24	0.2	0.16	0.13	0.12						
Low temperature characteristics (Impedance ratio at 120Hz)	WV	6.3	10	16	25	35	50						
	Z-25°C/Z+20°C	4	3	2	2	2	2						
	Z-40°C/Z+20°C	10	7	5	3	3	3						
Load life (after application of the rated voltage for 5000 hours at 105°C)	Leakage current	Less than specified value											
	Capacitance change	Within $\pm 30\%$ of initial value											
	$\tan\delta$	Less than 300% 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.												
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											
	$\tan\delta$	Less than specified value											

Unit : mm



\* Please refer to drawing for CK Series in page 57 for detail drawing.

## ● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

$\mu F \backslash WV$	6.3	10	16	25	35	50
10						6.3 × 5.8 30
22				6.3 × 5.8 38	6.3 × 5.8 42	6.3 × 7.7 120
33			6.3 × 5.8 40	6.3 × 5.8 48	6.3 × 7.7 57	8 × 10 140
47	6.3 × 5.8 46	6.3 × 5.8 50	6.3 × 7.7 63	8 × 10 92	8 × 10 170	
100	6.3 × 5.8 60	6.3 × 7.7 81	6.3 × 7.7 81	8 × 10 116	10 × 10 151	10 × 10 310
220	6.3 × 7.7 101	8 × 10 141	10 × 10 216	10 × 10 216	10 × 10 216	
330	8 × 10 160	10 × 10 238	10 × 10 238	10 × 10 238		
470	10 × 10 254	10 × 10 254	10 × 10 254			
1000	10 × 10 313					

↑ Ripple current (mA rms) at 105°C, 120Hz  
Case size ØD × L (mm)

## ● FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

Frequency	50Hz	120Hz	300Hz	1kHz	10kHz
Coefficient	0.70	1.00	1.17	1.36	1.50