## SURFACE MOUNT ALUMINUM ELECTROLYTIC CAPACITORS

CB

Chip type,Long Life Series







- Chip type with load life 5000 hours at 105°C
- · Chip type with 5.5mmL Height
- Designed for surface mounting on high density PC board
- · Applicable to automatic insertion machine using carrier tape
- · Complied to the RoHS directive

RC		СВ
	Long life	

Item	Characteristics									
Operating temperature range	-40 ~ +105°C									
Leakage current max.	I = 0.01CV or $3\mu$ A whichever is greater (after 2 minutes)									
Capacitance tolerance	±20% at 120Hz, 20°C									
Dissipation factor max.	WV 4		6.3	10	16	25	35	50		
(at 120Hz, 20°C)	tan∂ 0.32		0.28	0.24	0.2	0.16	0.13	0.12		
Low temperature characteristics	WV		4	6.3	10	16	25	35 ~ 50		
(Impedance ratio at 120Hz)	Z-25°C/Z+20°C		12	10	8	6	4	4		
(impedance ratio at 12012)	Z-40°C/Z+20°C		16	14	12	8	6	4		
Load life	Capacitano	ce change		Within :	Within ±30% of initial value					
(after application of the rated	tan∂			Less tha	Less than 300% of the specified value					
voltage for 5000 hours at 105°C)	Leakage current Less than specified value									
Shelf life (at 105°C)	After 1000 hours no load test, leakage current, capacitance and tanô are same as load life value. The measurement shall be performed at 20°C by the KS C IEC 60384 - 4									
	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them at 250°C for 10 seconds.							С		
Resistance to soldering heat	Leakage cı	urrent		Less tha	Less than specified value					
	Capacitano	ce change		Within =	Within ±10% of initial value					
	tan∂			Less tha	Less than specified value					

## • DRAWING (See page 62)

-Series code of CB is "B"

## • DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

WV	4		6.3		10		16		25		35		50		
μ <b>F</b>	•		0.0		10		10			20					
1.0													4×5.3	7	
2.2													4×5.3	11	
3.3													4×5.3	14	
4.7									4×5.3	14	4×5.3	15	5×5.3	19	
6.8									4×5.3	17	5×5.3	21	6.3×5.3	26	
10							4×5.3	19	5×5.3	24	5×5.3	26	6.3×5.3	33	
15					4×5.3	22	5×5.3	28	5×5.3	31	6.3×5.3	37	6.3×5.3	40	
22	4×5.3	24	4×5.3	25	5×5.3	30	5×5.3	33	6.3×5.3	42	6.3×5.3	45			
33	5×5.3	33	5×5.3	35	5×5.3	38	6.3×5.3	48	Ripple current (mA rms) at 105°C, 120Hz Case size ØD×L(mm)						
47	5×5.3	40	5×5.3	42	6.3×5.3	52	6.3×5.3	57							
68	5×5.3	48	6.3×5.3	55	6.3×5.3	63									
100	5×5.3	55	6.3×5.3	67	6.3×5.3	72			]						

## FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

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