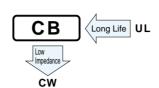
## **ALUMINUM ELECTROLYTIC CAPACITORS**

Chip Type, Long Life Assurance series



- Chip type with load life of 7000 hours at +105°C.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2002/95/EC).

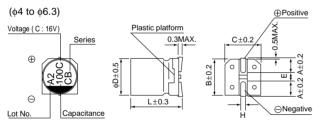


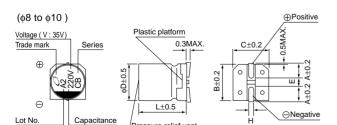


### ■Specifications

Item	Performance Characteristics									
Category Temperature Range	-25 to +105°C									
Rated Voltage Range	6.3 to 50V									
Rated Capacitance Range	0.1 to 1000μF	0.1 to 1000μF								
Capacitance Tolerance	±20% at 120Hz, 20°C									
Leakage Current	After 2 minutes' application of rated vo	ltage, le	eakage cı	urrent is not	more than 0.	03 CV or 4 ( <sub>I</sub>	uA), whichever is greater.			
				Measurement	frequency: 1	20Hz at 20°C				
Tangent of loss angle (tan δ)	Rated voltage (V) 6.3	10	16	25	35	50				
	tan δ (MAX.) 0.32 0.	.28	0.26	0.16	0.14	0.14				
	Measurement frequency : 120Hz									
Ctability at Law Taganasatura	Rated voltage (V)	6.3	10	16	25 35	50				
Stability at Low Temperature	Impedance ratio ZT / Z20 (MAX.) Z-25° C / Z+20°C	4	3	2	2 2	2				
	The specifications listed at right shall be met Capacitance change   Within ±30% of the initial capacitance value									
Endurance		when the capacitors are restored to 20°C after the rated voltage is applied for 7000				Within ±30% of the initial capacitance value 300% or less than the initial specified value				
Endurance						Less than or equal to the initial specified value				
1	hours at 105°C.  Leakage current Less than or equal to the initial specified value									
Shelf Life	After storing the capacitors under no load at 105° C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20° C, they shall meet the specified values for the endurance characteristics listed above.									
The capacitors are kept on a hot plate for 30 seconds, which is Capacitance change Within ±10% of the initial capa										
Resistance to soldering	maintained at 250° C. The capacitors s				tan δ	and ondinge	Less than or equal to the initial specified value			
heat	requirements listed at right when they and restored to 20°C.	are rem	10000	Leakage current Less than or equal to the initial specifi						
Marking	Black print on the case top.									

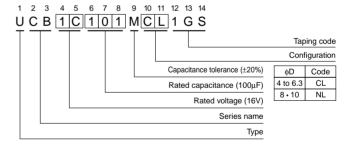
### ■Chip Type





Pressure relief vent

# Type numbering system (Example: 16V 100µF)



						(mm)
φD×L	4×7	5×7	6.3×7	6.3 × 8.7	8 × 10	10×10
Α	1.8	2.1	2.4	2.4	2.9	3.2
В	4.3	5.3	6.6	6.6	8.3	10.3
С	4.3	5.3	6.6	6.6	8.3	10.3
E	1.0	1.3	2.2	2.2	3.1	4.5
L	7.0	7.0	7.0	8.7	10	10
Н	0.5 to 0.8	0.5 to 0.8	0.5 to 0.8	0.5 to 0.8	0.8 to 1.1	0.8 to 1.1

### Voltage

V	6.3	10	16	25	35	50
Code	i	Δ	С	F	\/	Н



#### **■**Dimensions

	V	6.3		10		16	3	25		35	}	50	
Cap.(µF)	Code	0J		1A		10	;	1E		1\	′	1H	
0.1	0R1								i i	4×7	1.0		
0.22	R22								i i	4×7	2.6		
0.33	R33								!	4×7	3.2		
0.47	R47								İ	4×7	3.8		
1	010									4×7	6.2		
2.2	2R2								İ	4×7	11		
3.3	3R3									4×7	14		
4.7	4R7								İ	4×7	15		
10	100					4×7	18			5×7	25		
22	220	4×7	22		İ	5×7	30		İ	6.3×7	42		
33	330			5×7	35			6.3×7	48	6.3×8.7	57	8×10	77
47	470	5×7	36			6.3×7	50	6.3×8.7	63		1	8×10	92
100	101	6.3×7	60		İ	6.3×8.7	81	8×10	116		1	10×10	151
220	221	6.3×8.7	101	8×10	141					10×10	216		
330	331	8×10	160		İ				İ		i		
470	471					10×10	254					Case size	Rated
1000	102	10×10	313									$\phi D \times L \text{ (mm)}$	Rated ripple

Rated ripple current (mArms) at 105° C 120Hz

### • Frequency coefficient of rated ripple current

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

- Taping specifications are given in page 23.
- Recommended land size, soldering by reflow are given in page 18, 19.
- Please refer to page 3 for the minimum order quantity.