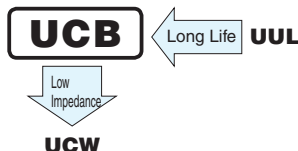


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Chip Type, Long Life Assurance



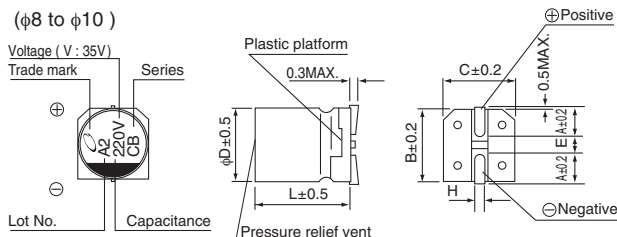
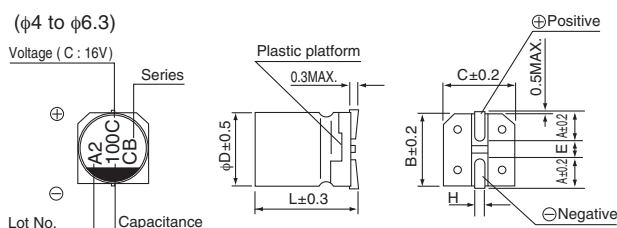
- Chip type with load life of 7000 hours at +105°C.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU).



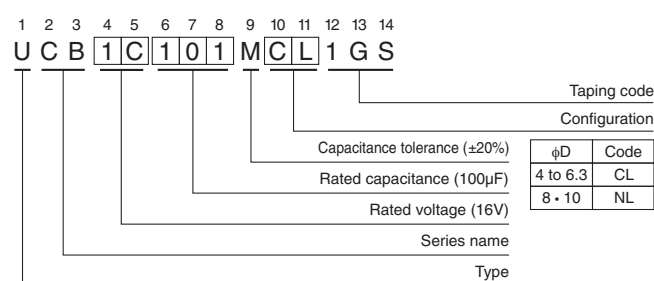
Specifications

Item	Performance Characteristics													
Category Temperature Range	-25 to +105°C													
Rated Voltage Range	6.3 to 50V													
Rated Capacitance Range	0.1 to 1000μF													
Capacitance Tolerance	±20% at 120Hz, 20°C													
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.03 CV or 4 (μA) , whichever is greater.													
Tangent of loss angle (tan δ)	Measurement frequency : 120Hz at 20°C													
	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							
Stability at Low Temperature	Measurement frequency : 120Hz													
	Rated voltage (V)		6.3	10	16	25	35	50						
	Impedance ratio ZT / Z20 (MAX.)	Z-25°C / Z+20°C	4	3	2	2	2	2						
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 7000 hours at 105°C.													
								Capacitance change		Within ±30% of the initial capacitance value				
								tan δ		300% or less than the initial specified value				
								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.													
Resistance to soldering heat	The capacitors are kept on a hot plate for 30 seconds, which is maintained at 250°C. The capacitors shall meet the characteristic requirements listed at right when they are removed from the plate and restored to 20°C.													
								Capacitance change		Within ±10% of the initial capacitance value				
								tan δ		Less than or equal to the initial specified value				
Marking	Black print on the case top.													
								Leakage current		Less than or equal to the initial specified value				

Chip Type



Type numbering system (Example : 16V 100μF)



φD × L	4 × 7	5 × 7	6.3 × 7	6.3 × 8.7	8 × 10	10 × 10
A	1.8	2.1	2.4	2.4	2.9	3.2
B	4.3	5.3	6.6	6.6	8.3	10.3
C	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
H	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	j	A	C	E	V	H

●Dimension table in next page.

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■ Dimensions

Cap.(μF)	V Code	6.3		10		16		25		35		50	
		0J		1A		1C		1E		1V		1H	
0.1	0R1									4 × 7	1.0		
0.22	R22									4 × 7	2.6		
0.33	R33									4 × 7	3.2		
0.47	R47									4 × 7	3.8		
1	010									4 × 7	6.2		
2.2	2R2									4 × 7	11		
3.3	3R3									4 × 7	14		
4.7	4R7									4 × 7	15		
10	100					4 × 7	18			5 × 7	25		
22	220	4 × 7	22			5 × 7	30			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			8 × 10	92
100	101	6.3 × 7	60			6.3 × 8.7	81	8 × 10	116			10 × 10	151
220	221	6.3 × 8.7	101	8 × 10	141					10 × 10	216		
330	331	8 × 10	160										
470	471					10 × 10	254					Case size φ D × L (mm)	Rated ripple
1000	102	10 × 10	313										

Rated ripple current (mA rms) 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.