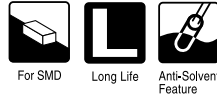
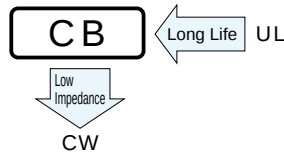


CB series

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 (2002/95/EC).

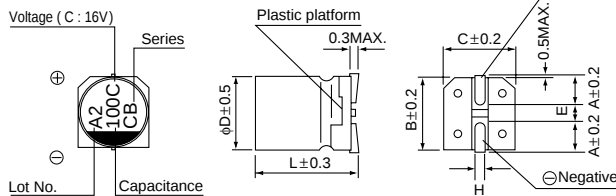


Specifications

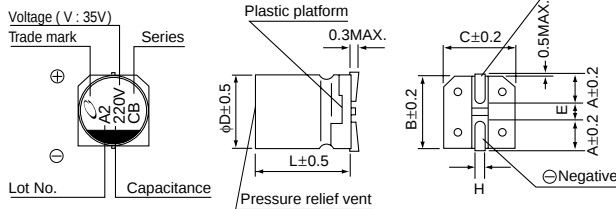
Item	Performance Characteristics																
Category Temperature Range	-25 to +105°C																
Rated Voltage Range	6.3 to 50V																
Rated Capacitance Range	0.1 to 1000μF																
Capacitance Tolerance	±20% at 120Hz, 20°C																
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.03 CV or 4 (μA) , whichever is greater.																
Tangent of loss angle (tan δ)	<table border="1"> <tr> <th colspan="2">Measurement frequency : 120Hz at 20°C</th></tr> <tr> <th>Rated voltage (V)</th><th>tan δ (MAX.)</th></tr> <tr> <td>6.3</td><td>0.32</td></tr> <tr> <td>10</td><td>0.28</td></tr> <tr> <td>16</td><td>0.26</td></tr> <tr> <td>25</td><td>0.16</td></tr> <tr> <td>35</td><td>0.14</td></tr> <tr> <td>50</td><td>0.14</td></tr> </table>	Measurement frequency : 120Hz at 20°C		Rated voltage (V)	tan δ (MAX.)	6.3	0.32	10	0.28	16	0.26	25	0.16	35	0.14	50	0.14
Measurement frequency : 120Hz at 20°C																	
Rated voltage (V)	tan δ (MAX.)																
6.3	0.32																
10	0.28																
16	0.26																
25	0.16																
35	0.14																
50	0.14																
Stability at Low Temperature	<table border="1"> <tr> <th colspan="2">Measurement frequency : 120Hz</th></tr> <tr> <th>Rated voltage (V)</th><th>Impedance ratio ZT / Z20 (MAX.)</th></tr> <tr> <td>6.3</td><td>4</td></tr> <tr> <td>10</td><td>3</td></tr> <tr> <td>16</td><td>2</td></tr> <tr> <td>25</td><td>2</td></tr> <tr> <td>35</td><td>2</td></tr> <tr> <td>50</td><td>2</td></tr> </table>	Measurement frequency : 120Hz		Rated voltage (V)	Impedance ratio ZT / Z20 (MAX.)	6.3	4	10	3	16	2	25	2	35	2	50	2
Measurement frequency : 120Hz																	
Rated voltage (V)	Impedance ratio ZT / Z20 (MAX.)																
6.3	4																
10	3																
16	2																
25	2																
35	2																
50	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. <table border="1"> <tr> <td>Capacitance change</td><td>Within ±30% of the initial capacitance value</td></tr> <tr> <td>tan δ</td><td>300% or less than the initial specified value</td></tr> <tr> <td>Leakage current</td><td>Less than or equal to the initial specified value</td></tr> </table>	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										
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. <table border="1"> <tr> <td>Capacitance change</td><td>Within ±10% of the initial capacitance value</td></tr> <tr> <td>tan δ</td><td>Less than or equal to the initial specified value</td></tr> <tr> <td>Leakage current</td><td>Less than or equal to the initial specified value</td></tr> </table>	Capacitance change	Within ±10% of the initial capacitance value	tan δ	Less than or equal to the initial specified value	Leakage current	Less than or equal to the initial specified value										
Capacitance change	Within ±10% of the initial capacitance value																
tan δ	Less than or equal to the initial specified value																
Leakage current	Less than or equal to the initial specified value																
Marking	Black print on the case top.																

Chip Type

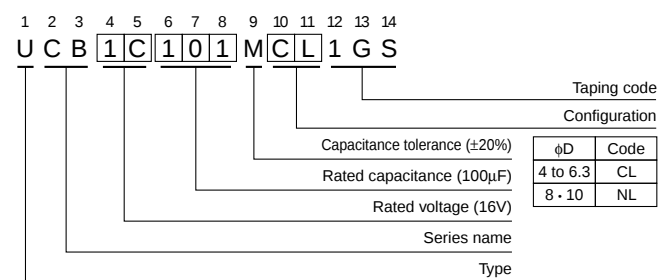
(φ4 to φ6.3)



(φ8 to φ10)



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.

■ 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 φD×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.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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Факс: 8 (812) 320-02-42

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