



**THE DATASHEET OF
UCB1C470MCL1GS**



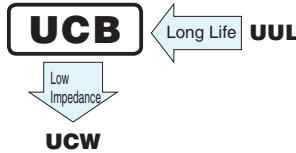
ALUMINUM ELECTROLYTIC CAPACITORS

UCB

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,(EU)2015/863).
- AEC-Q200 Qualified. Please contact us for details.



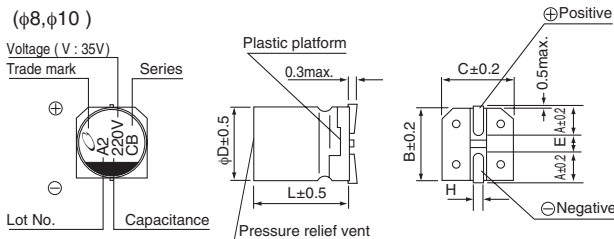
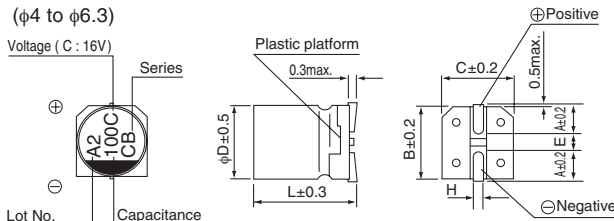
Products which are scheduled to be discontinued.
Not recommended for new designs.

Specifications

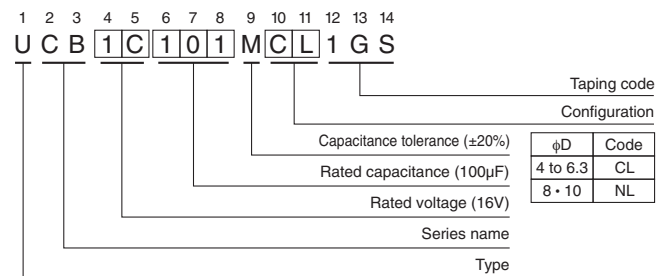
Item	Performance Characteristics					
Category Temperature Range	-25 to +105°C					
Rated Voltage Range	6.3 to 50V					
Rated Capacitance Range	1 to 1000µF					
Capacitance Tolerance	±20% at 120Hz, 20°C					
Leakage Current ※	After 2 minutes' application of rated voltage at 20°C, leakage current is not 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
Stability at Low Temperature	Measurement frequency : 120Hz					
	Impedance ratio ZT / Z20 (max.)	Z(-25°C) / Z(+20°C)	4	3	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				
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.					
	Capacitance change	Within ±10% of the initial capacitance value				
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.					
	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				

※ I : Leakage Current (µA), C : Rated Capacitance (µF), V : Rated Voltage (V)

Chip Type



Type numbering system (Example : 16V 100µF)



Voltage

V	6.3	10	16	25	35	50
Code	j	A	C	E	V	H

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

● Dimension table in next page.

UCB



■ Dimensions

Rated Voltage (V) (code)	Rated Capacitance (μ F)	Case Size ϕ D \times L (mm)	tan δ	Leakage Current (μ A) (at 20°C after 2 minutes)	Rated Ripple (mArms) (105°C/120Hz)	Part Number
6.3 (0J)	22	4 \times 7	0.32	4.158	22	UCB0J220MCL1GS
	47	5 \times 7	0.32	8.883	36	UCB0J470MCL1GS
	100	6.3 \times 7	0.32	18.9	60	UCB0J101MCL1GS
	220	6.3 \times 8.7	0.32	41.58	101	UCB0J221MCL1GS
	330	8 \times 10	0.32	62.37	160	UCB0J331MNL1GS
	1000	10 \times 10	0.32	189	313	UCB0J102MNL1GS
10 (1A)	33	5 \times 7	0.28	9.9	35	UCB1A330MCL1GS
	220	8 \times 10	0.28	66	141	UCB1A221MNL1GS
16 (1C)	10	4 \times 7	0.26	4.8	18	UCB1C100MCL1GS
	22	5 \times 7	0.26	10.56	30	UCB1C220MCL1GS
	47	6.3 \times 7	0.26	22.56	50	UCB1C470MCL1GS
	100	6.3 \times 8.7	0.26	48	81	UCB1C101MCL1GS
	470	10 \times 10	0.26	225.6	254	UCB1C471MNL1GS
25 (1E)	33	6.3 \times 7	0.16	24.75	48	UCB1E330MCL1GS
	47	6.3 \times 8.7	0.16	35.25	63	UCB1E470MCL1GS
	100	8 \times 10	0.16	75	116	UCB1E101MNL1GS
35 (1V)	1	4 \times 7	0.14	4	6.2	UCB1V010MCL1GS
	2.2	4 \times 7	0.14	4	11	UCB1V2R2MCL1GS
	3.3	4 \times 7	0.14	4	14	UCB1V3R3MCL1GS
	4.7	4 \times 7	0.14	4.935	15	UCB1V4R7MCL1GS
	10	5 \times 7	0.14	10.5	25	UCB1V100MCL1GS
	22	6.3 \times 7	0.14	23.1	42	UCB1V220MCL1GS
	33	6.3 \times 8.7	0.14	34.65	57	UCB1V330MCL1GS
	220	10 \times 10	0.14	231	216	UCB1V221MNL1GS
50 (1H)	33	8 \times 10	0.14	49.5	77	UCB1H330MNL1GS
	47	8 \times 10	0.14	70.5	92	UCB1H470MNL1GS
	100	10 \times 10	0.14	150	151	UCB1H101MNL1GS

• For taping specifications, recommended land size/soldering by reflow and minimum order quantity, please refer to the Guidelines for Aluminum Electrolytic Capacitors.

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