

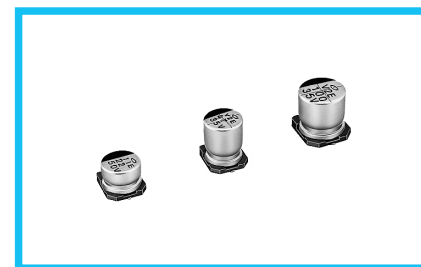
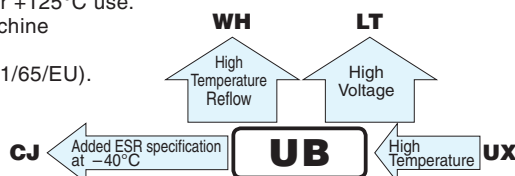
ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

UB series Chip Type, High Reliability



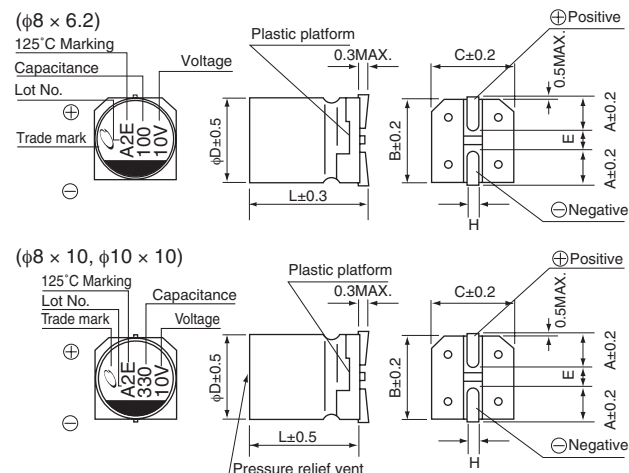
- Chip type, high temperature range, for +125°C use.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU).



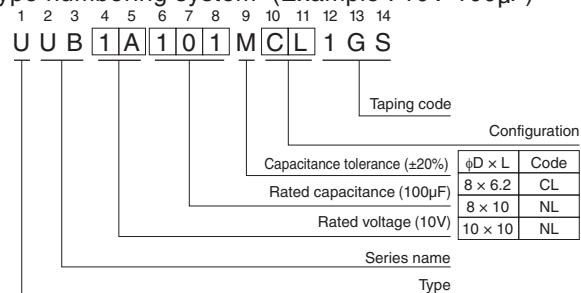
Specifications

Item	Performance Characteristics										
Category Temperature Range	-40 to +125°C										
Rated Voltage Range	10 to 400V										
Rated Capacitance Range	1 to 330μF										
Capacitance Tolerance	± 20% at 120Hz, 20°C										
Leakage Current	Rated voltage (V)		10 to 50						160 to 400		
	Leakage Current		After 1 minute's application of rated voltage, leakage current is not more than 0.03CV (μA). I = 0.04CV+100 (μA) max.(1 minute's)								
Tangent of loss angle (tan δ)	Measurement frequency : 120Hz at 20°C										
	Rated voltage (V)	10	16	25	35	50	160	200	250	400	
	tan δ (MAX.)	0.32	0.24	0.21	0.18	0.18	0.30	0.30	0.30	0.30	
Stability at Low Temperature	Measurement frequency : 120Hz										
	Rated voltage (V)		10	16	25	35	50	160	200	250	400
	Impedance ratio ZT / Z20 (MAX.)	Z-40°C / Z+20°C	12	8	6	4	4	8	8	8	12
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 2000 hours (1000 hours for φ8 × 6.2) at 125°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 125°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		
							Leakage current		Less than or equal to the initial specified value		
Marking	Black print on the case top.										

Chip Type



Type numbering system (Example : 10V 100μF)



	φ8 × 6.2	8 × 10	10 × 10
A	3.3	2.9	3.2
B	8.3	8.3	10.3
C	8.3	8.3	10.3
E	2.3	3.1	4.5
L	6.2	10	10
H	0.5 to 0.8	0.8 to 1.1	0.8 to 1.1

Dimensions

Cap.(μF)	V	10	16	25	35	50
		1A	1C	1E	1V	1H
10	100					8 × 6.2 24
22	220					8 × 6.2 38
33	330					8 × 10 46
47	470					10 × 10 58
100	101	8 × 6.2 58	8 × 10 66	8 × 6.2 48	8 × 10 52	
220	221	8 × 10 90	10 × 10 102	8 × 10 74	10 × 10 80	
330	331	10 × 10 112				Case size φD × L (mm)
						Rated ripple

Cap.(μF)	V	160	200	250	400
		2C	2D	2E	2G
1	010				8 × 10 26
1.8	1R8				8 × 10 27
2.2	2R2				10 × 10 36
3.3	3R3				10 × 10 38
4.7	4R7				
6.8	6R8	8 × 10 42	10 × 10 59	8 × 10 28	10 × 10 59
10	100	10 × 10 59	10 × 10 59		
					Case size φD × L (mm)
					Rated ripple

Rated ripple current (mA rms) at 125°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.

CAT.8100D

Mouser Electronics

Authorized Distributor

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Nichicon:

<u>UUB1V470MNL1GS</u>	<u>UUB1V101MNL1GS</u>	<u>UUB1A101MCL1GS</u>	<u>UUB1A221MNL1GS</u>	<u>UUB1A331MNL1GS</u>
<u>UUB1C101MNL1GS</u>	<u>UUB1C221MNL1GS</u>	<u>UUB1E470MCL1GS</u>	<u>UUB1E101MNL1GS</u>	<u>UUB1E221MNL1GS</u>
<u>UUB1V330MCL1GS</u>	<u>UUB1H100MCL1GS</u>	<u>UUB1H220MCL1GS</u>	<u>UUB1H330MNL1GS</u>	<u>UUB1E100MNL1GS</u>
<u>UUB1H470MNL1GS</u>	<u>UUB2C100MNL1GS</u>	<u>UUB2C6R8MNL1GS</u>	<u>UUB2D100MNL1GS</u>	<u>UUB2D4R7MNL1GS</u>
<u>UUB2D6R8MNL1GS</u>	<u>UUB2E3R3MNL1GS</u>	<u>UUB2E4R7MNL1GS</u>	<u>UUB2G010MNL1GS</u>	<u>UUB2G1R8MNL1GS</u>
<u>UUB2G2R2MNL1GS</u>	<u>UUB2G3R3MNL1GS</u>			