

# ALUMINUM ELECTROLYTIC CAPACITORS

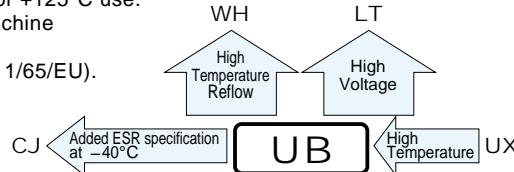
nichicon

**UB**

Chip Type, High Reliability



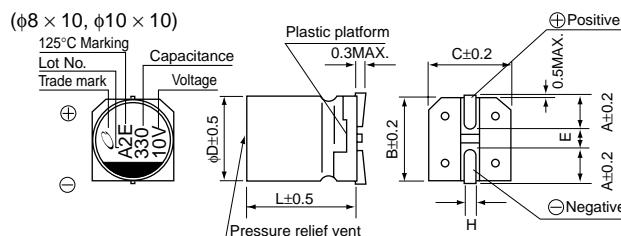
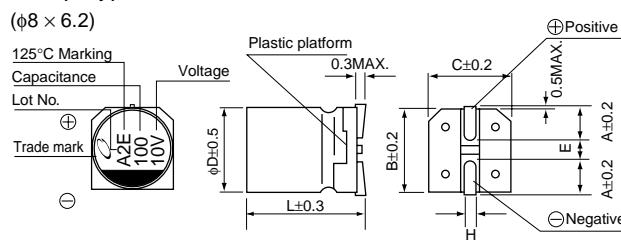
- Chip type, high temperature range, for +125°C use.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU).



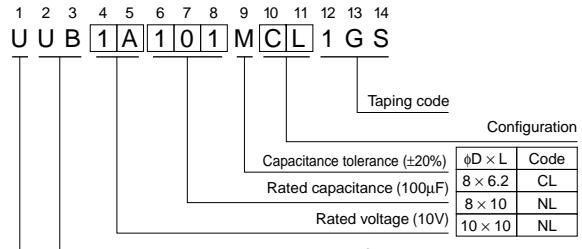
## ■ Specifications

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								
	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)	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 at 20°C									
	Rated voltage (V)	10	16	25	35	50	160	200	250	400
	Impedance ratio 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			
Marking	Black print on the case top.									

## ■ Chip Type



## Type numbering system (Example : 10V 100μF)



	8x6.2	8x10	10x10
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
Code		1A	1C	1E	1V	1H
10	100					
22	220					
33	330					
47	470					
100	101	8x6.2	58	8x10	66	8x6.2
220	221	8x10	90	10x10	102	8x10
330	331	10x10	112			10x10

Cap.(μF)	V	160	200	250	400
Code		2C	2D	2E	2G
1	010				8x10 26
1.8	1R8				8x10 27
2.2	2R2				10x10 36
3.3	3R3			8x10 28	10x10 38
4.7	4R7		8x10 36	10x10 59	
6.8	6R8	8x10 42	10x10 59		
10	100	10x10 59	10x10 59		

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.8100C