

# ALUMINUM ELECTROLYTIC CAPACITORS

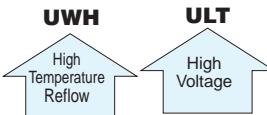
nichicon

# UUB

Chip Type, High Reliability



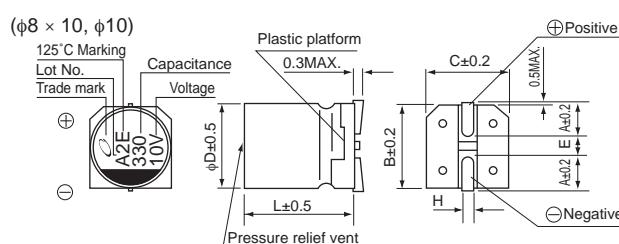
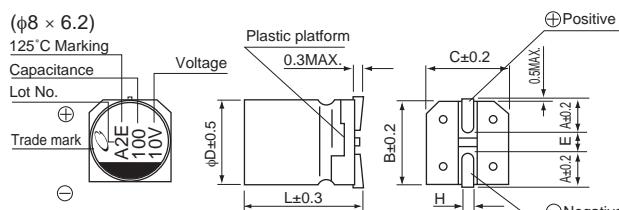
- Chip type, high temperature range, for +125°C use.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU).



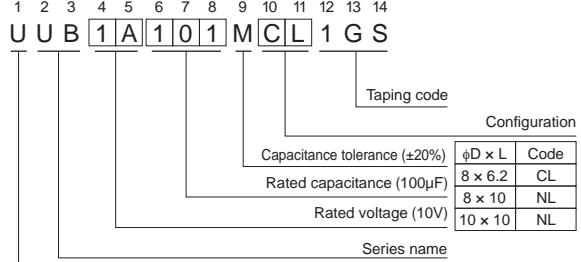
## ■ Specifications

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
	tan δ (MAX.)	0.32	0.24	0.21	0.18	0.18	0.30	0.30	0.30
Stability at Low Temperature	Rated voltage (V)	10	16	25	35	50	160	200	250
	Impedance ratio ZT / Z20°C (MAX.)	Z-40°C / Z+20°C	12	8	6	4	4	8	8
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		
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)



## ■ 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	8 x 6.2	58	8 x 10	66	8 x 6.2
220	221	8 x 10	90	10 x 10	102	8 x 10
330	331	10 x 10	112	10 x 10	116	10 x 10

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