

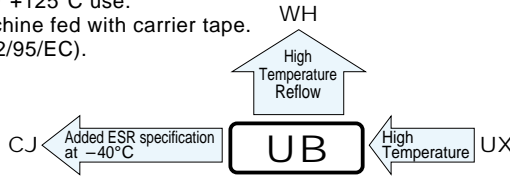
# ALUMINUM ELECTROLYTIC CAPACITORS



**UB** series Chip Type, High Reliability



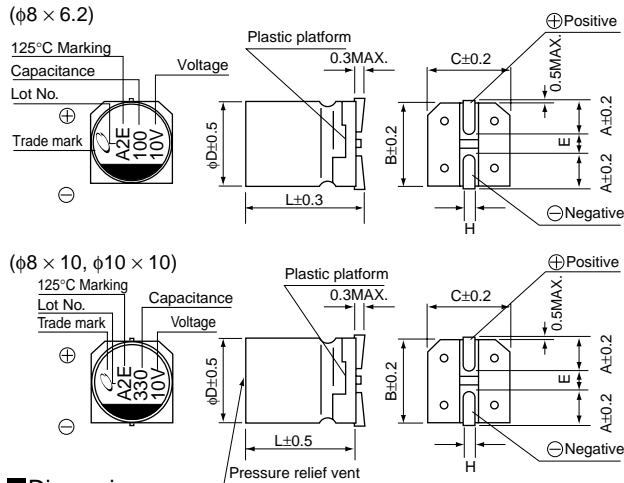
- Chip type, high temperature range, for +125°C use.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2002/95/EC).



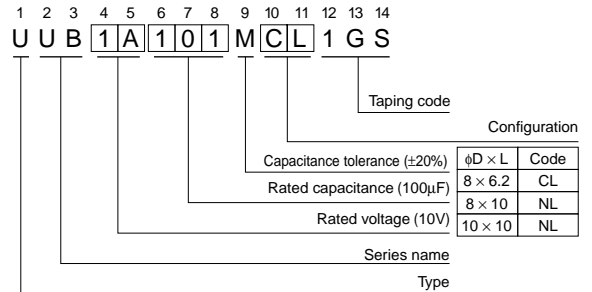
## Specifications

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)	Measurement frequency : 120Hz, Temperature : 20°C	
	Rated voltage (V)	10 16 25 35 50 160 200 250 400
Stability at Low Temperature	Measurement frequency : 120Hz	
	Rated voltage (V)	10 16 25 35 50 160 200 250 400
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	tan δ
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.	
	Capacitance change	tan δ
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	tan δ
Marking	Black print on the case top.	

## Chip Type



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



φD × L (mm)	8 × 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)	Code	10		16		25		35		50	
		V	1A	V	1C	V	1E	V	1V	V	1H
10	100									8 × 6.2	24
22	220									8 × 6.2	38
33	330									8 × 10	46
47	470							8 × 6.2	44	10 × 10	58
100	101	8 × 6.2	58	8 × 10	66	8 × 10	74	8 × 10	52	10 × 10	
220	221	8 × 10	90	10 × 10	102	10 × 10	116	10 × 10	80		
330	331	10 × 10	112							Case size φD × L (mm)	Rated ripple

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

Rated ripple current (mArms) at 125°C 120Hz

## Frequency coefficient of rated ripple current

Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10kHz 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 select UH(p.112) series if high CV products are required.
- Please refer to page 3 for the minimum order quantity.

CAT.8100Z