

**UB** series Chip Type, High Reliability



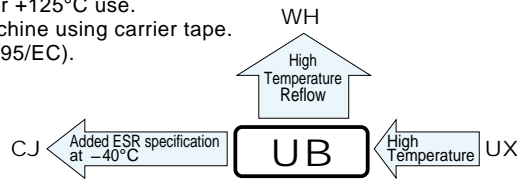
For SMD



Long Life

Anti-Solvent  
Feature

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

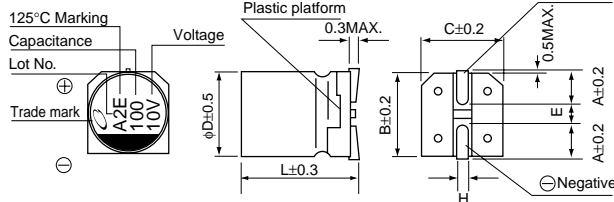


## Specifications

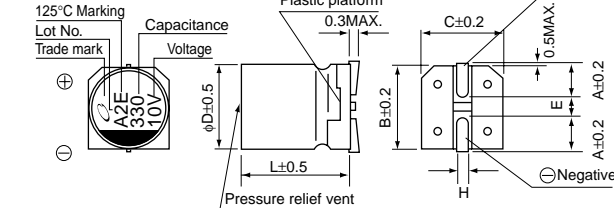
Item	Performance Characteristics						
Category Temperature Range	-40 to +125°C						
Rated Voltage Range	10 to 50V						
Rated Capacitance Range	10 to 330μF						
Capacitance Tolerance	±20% at 120Hz, 20°C						
Leakage Current	After 1 minute's application of rated voltage, leakage current is not more than 0.03CV or 4(μA) , whichever is greater.						
tan δ	Measurement frequency : 120Hz, Temperature : 20°C						
	Rated voltage (V)	10	16	25	35	50	
	tan δ (MAX.)	0.32	0.24	0.21	0.18	0.18	
Stability at Low Temperature	Measurement frequency : 120Hz						
	Rated voltage (V)		10	16	25	35	50
	Impedance ratio ZT / Z20 (MAX.)	Z-40°C / Z+20°C	12	8	6	4	4
Endurance	After 2000 hours' (φ8 × 6.2 : 1000 hours) application of rated voltage at 125°C, capacitors meet the characteristic requirements listed at right.				Capacitance change		Within ±30% of initial value
					tan δ		300% or less of intial specified value
					Leakage current		Initial specified value or less
Shelf Life	After storing the capacitors under no load at 125°C for 1000 hours, and after performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they will meet the specified value for endurance characteristics listed above.						
Resistance to soldering heat	The capacitors shall be kept on the hot plate maintained at 250°C for 30 seconds. After removing from the hot plate and restored at room temperature, they meet the characteristic requirements listed at right.				Capacitance change		Within ±10% of initial value
tan δ					Initial specified value or less		
Leakage current					Initial specified value or less		
Marking	Black print on the case top.						

## Chip Type

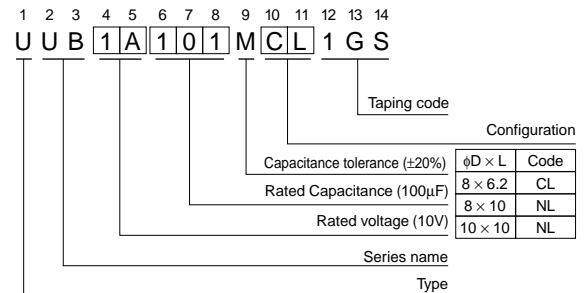
(φ8 × 6.2)



(φ8 × 10, φ10 × 10)



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



φD × L	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)	V	10	16	25	35	50
Code	Code	1A	1C	1E	1V	1H
10	100					8 × 6.2 24
22	220					8 × 6.2 38
33	330				8 × 6.2 44	8 × 10 46
47	470			8 × 6.2 48	8 × 10 52	10 × 10 58
100	101	8 × 6.2 58	8 × 10 66	8 × 10 74	10 × 10 80	
220	221	8 × 10 90	10 × 10 102	10 × 10 116		
330	331	10 × 10 112				
						Case size φD × L (mm) Rated ripple

Rated Ripple (mArms) 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 select UH(p.94) series if high CV products are required.
- Please refer to page 3 for the minimum order quantity.