

UUB

Chip Type, High Reliability



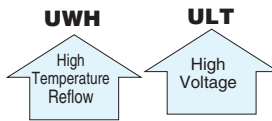
For SMD



Long Life

Anti-Solvent
Feature
(Through 50V only)

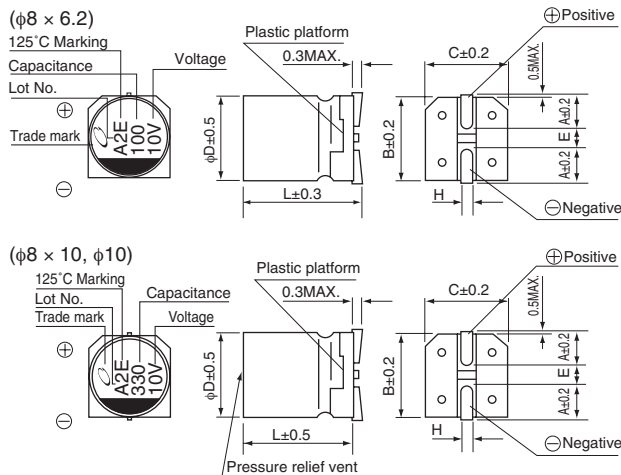
- Chip type, high temperature range, for +125°C use.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU, (EU)2015/863).
- AEC-Q200 compliant. Please contact us for details.



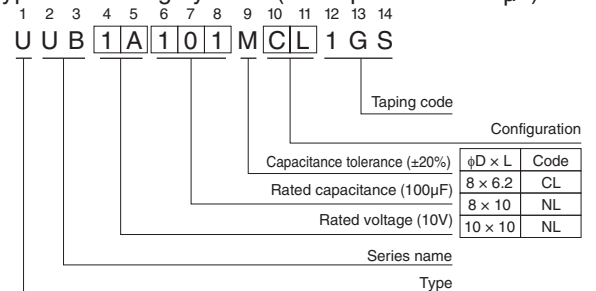
■ Specifications

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 at 20°C, leakage current is not more than 0.03CV (μA). I = 0.04CV+100 (μA) max.(1 minute's at 20°C)								
Tangent of loss angle (tan δ)	Measurement frequency : 120Hz at 20°C										
	Rated voltage (V) tan δ (MAX.)	10 0.32	16 0.24	25 0.21	35 0.18	50 0.18	160 0.30	200 0.30	250 0.30	400 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 tan δ		Within ±30% of the initial capacitance value 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 tan δ		Within ±10% of the initial capacitance value 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)



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		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	10 × 10 80
220	221	8 × 10 90	10 × 10 102	10 × 10 116		
330	331	10 × 10 112				

Cap.(μF)	V	160	200	250	400
Code		2C	2D	2E	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 (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.