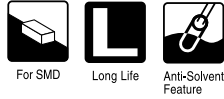


ALUMINUM ELECTROLYTIC CAPACITORS

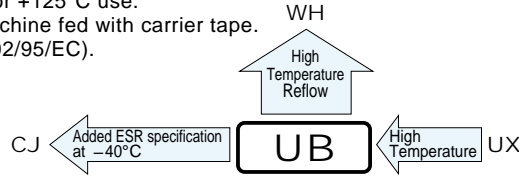
nichicon

Upgrade

UB series Chip Type, High Reliability



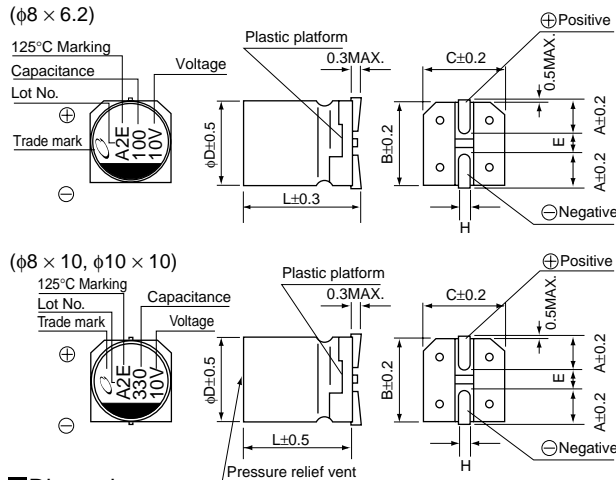
- Chip type, high temperature range, for +125°C use.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2002/95/EC).



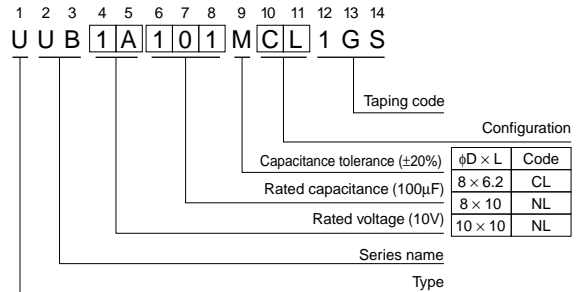
Specifications

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.	
	Capacitance change	tan δ

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)	Code	10	16	25	35	50
		1A	1C	1E	1V	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	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

Cap. (μF)	Code	160	200	250	400
		2C	2D	2E	2G
1	010				8 × 10 26
1.8	1R8				8 × 10 27
2.2	2R2				10 × 10 36
3.3	3R3				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	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.106) series if high CV products are required.
- Please refer to page 3 for the minimum order quantity.

CAT.8100Y