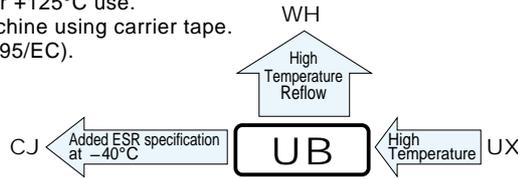


ALUMINUM ELECTROLYTIC CAPACITORS

UB series Chip Type, High Reliability



- 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).

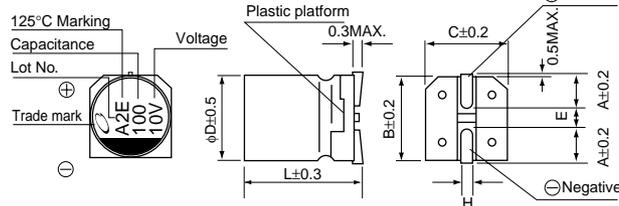


Specifications

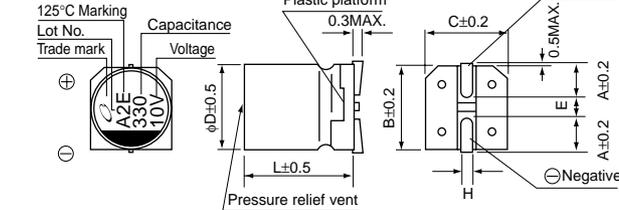
Item	Performance Characteristics											
Category Temperature Range	-40 to +125°C											
Rated Voltage Range	10 to 50V											
Rated Capacitance Range	10 to 330μF											
Capacitance Tolerance	±20% at 120Hz, 20°C											
Leakage Current	After 1 minute's application of rated voltage, leakage 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						
Endurance	After 2000 hours' (φ8 × 6.2 : 1000 hours) application of rated voltage at 125°C, capacitors meet the characteristic requirements listed at right.		<table border="1"> <tr> <td>Capacitance change</td> <td>Within ±30% of initial value</td> </tr> <tr> <td>tan δ</td> <td>300% or less of initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>Initial specified value or less</td> </tr> </table>				Capacitance change	Within ±30% of initial value	tan δ	300% or less of initial specified value	Leakage current	Initial specified value or less
	Capacitance change	Within ±30% of initial value										
tan δ	300% or less of initial 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.		<table border="1"> <tr> <td>Capacitance change</td> <td>Within ±10% of initial value</td> </tr> <tr> <td>tan δ</td> <td>Initial specified value or less</td> </tr> <tr> <td>Leakage current</td> <td>Initial specified value or less</td> </tr> </table>				Capacitance change	Within ±10% of initial value	tan δ	Initial specified value or less	Leakage current	Initial specified value or less
	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)

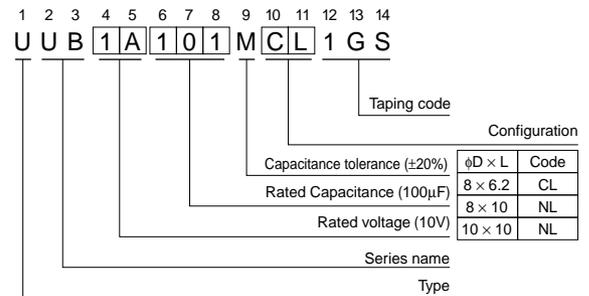


(φ8 × 10, φ10 × 10)



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

Type numbering system (Example : 10V 100μF)



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 × 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			Case size φ D × L (mm)	Rated ripple
330	331	10 × 10	112								

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