

ALUMINUM ELECTROLYTIC CAPACITORS

皇御UB1A10MCL铁应高

捷多邦, 专业PCB打样工厂, 24小时加急出货

nichicon

UB

Chip Type, High Reliability

series

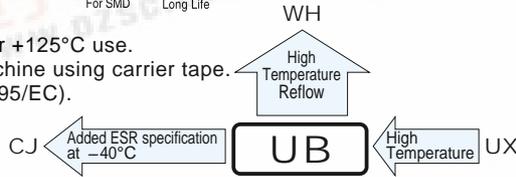


For SMD



Long Life

- 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).

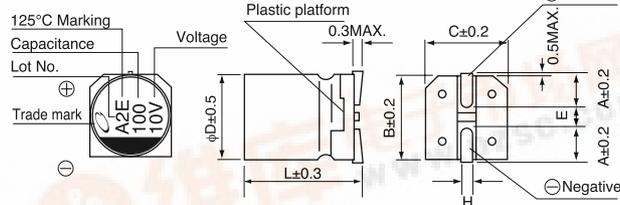


Specifications

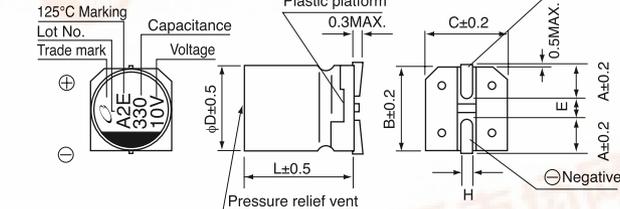
Item	Performance Characteristics												
Category Temperature Range	-40 ~ +125°C												
Rated Voltage Range	10 ~ 50V												
Rated Capacitance Range	10 ~ 330μF												
Capacitance Tolerance	±20% at 120Hz, 20°C												
Leakage Current	After 1 minute's application of rated voltage, leakage current is not more than 0.03CV or 4(μA), whichever is greater.												
tan δ	Measurement frequency : 120Hz, Temperature : 20°C												
	<table border="1"> <tr> <td>Rated voltage (V)</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>tan δ (MAX.)</td> <td>0.32</td> <td>0.24</td> <td>0.21</td> <td>0.18</td> <td>0.18</td> </tr> </table>	Rated voltage (V)	10	16	25	35	50	tan δ (MAX.)	0.32	0.24	0.21	0.18	0.18
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tan δ (MAX.)	0.32	0.24	0.21	0.18	0.18								
Stability at Low Temperature	Measurement frequency : 120Hz												
	<table border="1"> <tr> <td>Rated voltage (V)</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>Impedance ratio ZT / Z20 (MAX.)</td> <td>Z-40°C / Z+20°C</td> <td>12</td> <td>8</td> <td>6</td> <td>4</td> <td>4</td> </tr> </table>	Rated voltage (V)	10	16	25	35	50	Impedance ratio ZT / Z20 (MAX.)	Z-40°C / Z+20°C	12	8	6	4
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 initial specified value											
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.												
	Capacitance change	Within ±10% of initial value											
	tan δ	Initial specified value or less											
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											
	Leakage current	Initial specified value or less											
Marking	Black print on the case top.												

Chip Type

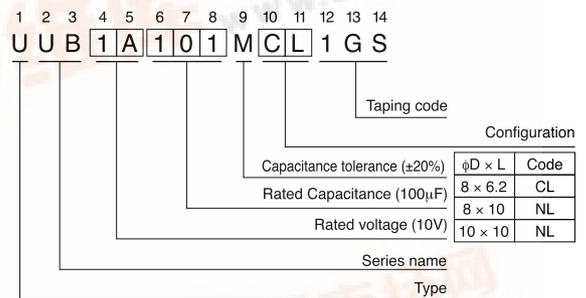
(φ8 × 6.2)



(φ8 × 10, φ10 × 10)



Type numbering system (Example : 10V 100μF)



	(mm)		
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 ~ 0.8	0.8 ~ 1.1	0.8 ~ 1.1

Dimensions

Cap. (μF)	V	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 × 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~
Coefficient	0.70	1.00	1.17	1.36	1.50

- Taping specifications are given in page 24.
- Recommended land size, soldering by reflow are given in page 25, 26.
- Please select UH(p.78) series if high CV products are required.

