

# ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

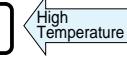
**UB**

Chip Type, High Reliability  
series



For SMD

- Chip type, high temperature range, for +125°C use.
- Applicable to automatic mounting machine using carrier tape.

**UB**  UX

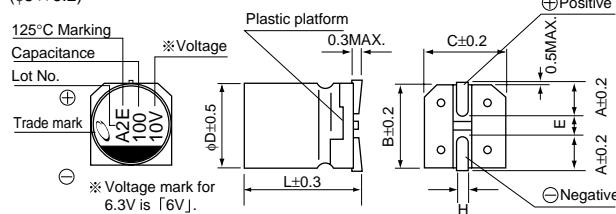


## ■ Specifications

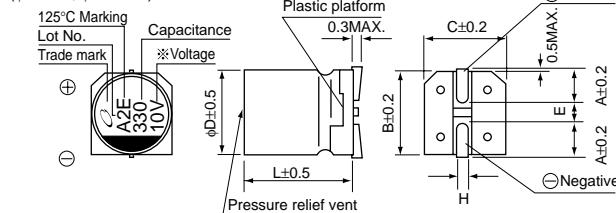
Item	Performance Characteristics																	
Category Temperature Range	-40 ~ +125°C																	
Rated Voltage Range	10 ~ 50V																	
Rated Capacitance Range	10 ~ 330μF																	
Capacitance Tolerance	±20% at 120Hz, 20°C																	
Leakage Current	After 1 minute's application 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> <th>Rated voltage (V)</th><th>10</th><th>16</th><th>25</th><th>35</th><th>50</th></tr> <tr> <th>tan δ (MAX.)</th><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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Stability at Low Temperature	Measurement frequency : 120Hz <table border="1"> <tr> <th>Rated voltage (V)</th><th>10</th><th>16</th><th>25</th><th>35</th><th>50</th></tr> <tr> <th>Impedance ratio ZT / Z20°C (MAX.)</th><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°C (MAX.)	12	8	6	4	4
Rated voltage (V)	10	16	25	35	50													
Impedance ratio ZT / Z20°C (MAX.)	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													
				Leakage current	Initial specified value or less													
Shelf Life	After leaving capacitors under no load at 125°C for 1000 hours, they 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.																	
Marking	Black print on the case top.																	

## ■ Chip Type

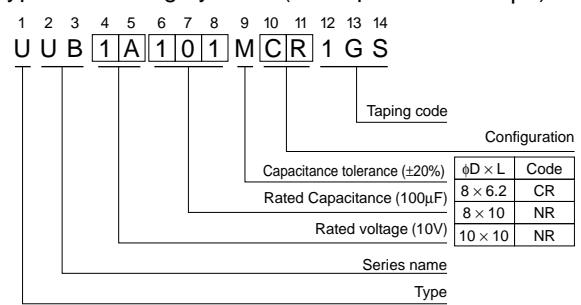
(Φ8 × 6.2)



(Φ8 × 10, Φ10 × 10)



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



• The lead-free product is also available upon request.  
In this case, **L** will be put at 11th digit of type numbering system.

## ■ Dimensions

Cap.(μF)	Code	Ø D × L (mm)					
		10	16	25	35	50	
10	100						8 × 6.2   24
22	220						8 × 6.2   38
33	330						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					Rated ripple

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
Coefficient	0.70	1.00	1.17	1.36	1.50

- Taping specifications are given in page 22.
- Please refer to page 3 for the minimum order quantity.
- Recommended land size are given in page 23

CAT.8100T