

ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

UX series

Chip Type, Higher Capacitance Range



For SMD



Anti-Solvent Feature

- Chip type, higher capacitance in larger case sizes.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine using carrier tape.

UB ← High Reliability **UX** ← Higher Cap. UT

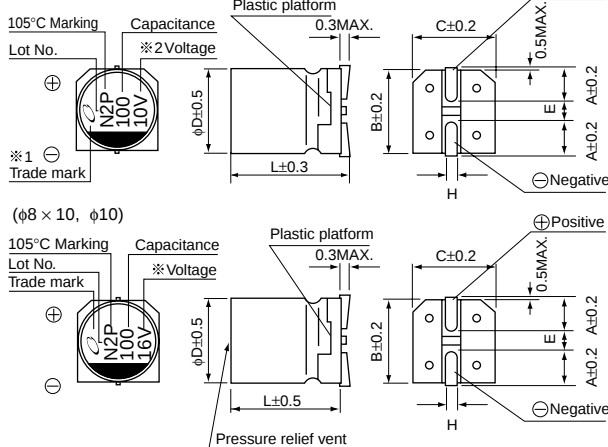


Specifications

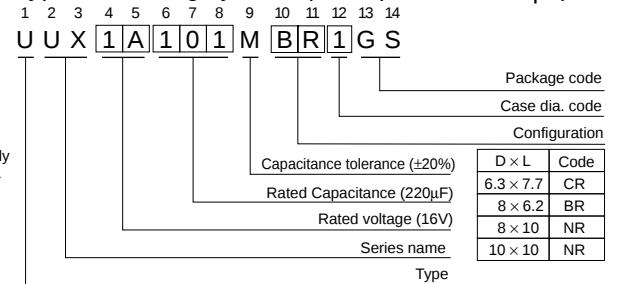
Item	Performance Characteristics									
Category Temperature Range	-55 ~ +105°C									
Rated Voltage Range	6.3 ~ 100V									
Rated Capacitance Range	4.7 ~ 1000μF									
Capacitance Tolerance	±20% at 120Hz, 20°C									
Leakage Current	After 1 minute's application of rated voltage, leakage current is not more than 0.03CV (μA).									
tan δ	Measurement frequency : 120Hz, Temperature : 20°C									
	Rated voltage (V)	6.3	10	16	25	35	50	63	100	
	tan δ (MAX.)	0.22	0.19	0.16	0.14	0.12	0.10	0.10	0.08	
Stability at Low Temperature	Measurement frequency : 120Hz									
	Rated voltage (V)		6.3	10	16	25	35	50	63	100
	Impedance ratio ZT / Z20 (MAX.)	Z-55°C / Z+20°C	4	4	3	3	3	2	3	4
Endurance	After 2000 hours' application of rated voltage at 105°C, capacitors meet the characteristic requirements listed at right.					Capacitance change		Within ±20% of initial value		
						tan δ		200% or less of intial specified value		
						Leakage current		Initial specified value or less		
Shelf Life	After leaving capacitors under no load at 105°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.					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

(φ6.3, φ8 × 6.2)



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.
- Size φ8 × 6.2, **CL** will be put at 10th and 11th digit of type numbering system.

D × L	6.3 × 7.7	8 × 6.2	8 × 10	10 × 10
A	2.4	3.3	2.9	3.2
B	6.6	8.3	8.3	10.3
C	6.6	8.3	8.3	10.3
E	2.2	2.3	3.1	4.5
L	7.7	6.2	10	10
H	0.5 ~ 0.8	0.5 ~ 0.8	0.8 ~ 1.1	0.8 ~ 1.1

D × L (mm)

Dimensions

Cap. (μF)	V	6.3	10	16	25	35	50	63	100
4.7	Code	0J	1A	1C	1E	1V	1H	1J	2A
10									8 × 6.2: 42
22									8 × 10: 75
33									10 × 10: 150 (121)
47									10 × 10: 180
100									10 × 10: 230
220									
330									
470									
1000									

Size φ6.3 × 7.7 is available for capacitors marked. "○" / Size φ8 × 10 is available for capacitors marked. "■"
※ In this case, **6** will be put at 12th digit of type numbering system.

Rated Ripple (mA rms) at 105°C 120Hz

Frequency coefficient of rated ripple current

Cap. (μF)	Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz~
~ 47		0.80	1.00	1.15	1.40	1.67
100 ~ 1000		0.85	1.00	1.08	1.20	1.30

- Taping Specifications are given in page 22.

Please refer to page 3 for the minimum order quantity.

CAT.8100S