

ALUMINUM ELECTROLYTIC CAPACITORS

nichicon



Chip Type, Higher Capacitance Range



- 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.

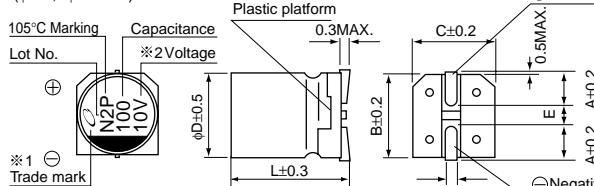


■ Specifications

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). Measurement frequency : 120Hz, Temperature : 20°C															
tan δ	Rated voltage (V)	6.3	10	16	25	35	50	63								
	tan δ (MAX.)	0.22	0.19	0.16	0.14	0.12	0.10	0.08								
Stability at Low Temperature		Measurement frequency : 120Hz														
		Rated voltage (V)	6.3	10	16	25	35	50	63							
		Impedance ratio ZT / Z20 (MAX.)	Z-55°C / Z+20°C	4	4	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 initial 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.														

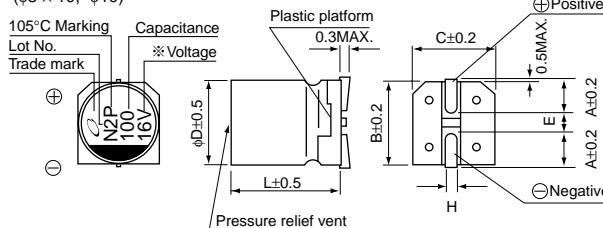
■ Chip Type

(φ6.3, φ8 × 6.2)

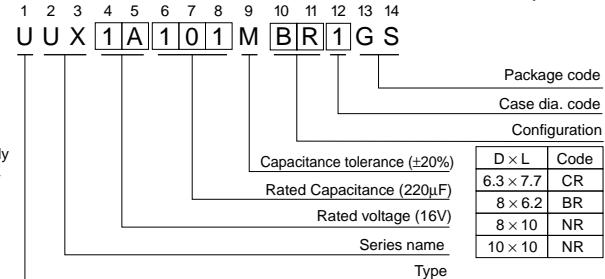


※ 1 Size φ8 x 6.2 only
※ 2 Voltage mark for 6.3V is '6V'.

(φ8 × 10, φ10)



Type numbering system (Example : 10V 100μF)



• The lead-free product is also available upon request.

In this case, [] will be put at 11th digit of type numbering system.

Size φ8 x 6.2, [CL] will be put at 10th and 11th digit of type numbering system. (mm)

D x L	6.3 x 7.7	8 x 6.2	8 x 10	10 x 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 x 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 x 6.2
22									42
33									
47									
100	101								
220	221	○ 8 x 10 161 (121)	8 x 10 173	■ 10 x 10 330 (307)	■ 10 x 10 351 (283)	○ 8 x 6.2 79 (78)	8 x 10 181	■ 10 x 10 304 (283)	8 x 6.2 67 (64)
330	331	8 x 10 288	■ 10 x 10 318 (296)	■ 10 x 10 441 (410)	10 x 10 372	8 x 10 124	■ 10 x 10 180 (167)	10 x 10 310	8 x 10 108
470	471	■ 10 x 10 340 (316)	■ 10 x 10 351 (326)	10 x 10 469		10 x 10 450			■ 10 x 10 185 (179)
680	681	10 x 10 408	10 x 10 392						10 x 10 220
1000	102	10 x 10 495							10 x 10 320

Size φ6.3 x 7.7 is available for capacitors marked. "○" / Size φ8 x 10 is available for capacitors marked. "■"

* In this case, [] 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