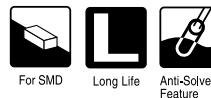


ALUMINUM ELECTROLYTIC CAPACITORS

nichicon



6mmL Chip Type, Long Life Assurance
series



- Chip type with load life of 3000~5000 hours at +105°C.
- Designed for surface mounting on high density PC board.
- Adapted to the RoHS directive (2002/95/EC).

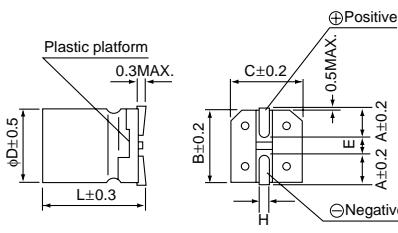
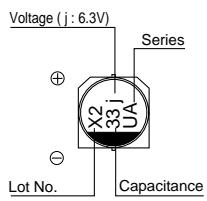


■ Specifications

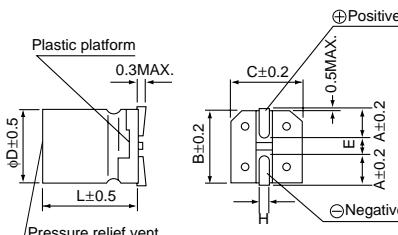
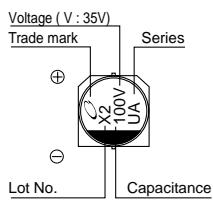
Item	Performance Characteristics										
Category Temperature Range	-55 ~ +105°C										
Rated Voltage Range	6.3 ~ 50V										
Rated Capacitance Range	0.1 ~ 1000μF										
Capacitance Tolerance	±20% at 120Hz, 20°C										
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.01 CV or 3 (μA) , whichever is greater.										
tan δ	Measurement frequency : 120Hz, Temperature : 20°C										
	Rated voltage (V)	6.3	10	16	25	35					
	tan δ (MAX.)	0.28	0.24	0.20	0.16	0.13					
		50									
Stability at Low Temperature	Measurement frequency : 120Hz										
	Rated voltage (V)	6.3	10	16	25	35					
	Impedance ratio Z-25°C / Z+20°C	4	3	2	2	2					
	ZT / Z20 (MAX.) Z-55°C / Z+20°C	10	7	5	3	3					
Endurance	After 3000 hours' (5000 hours for φ8, φ10) application of rated voltage at 105°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 storing the capacitors under no load at 105°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.										
	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

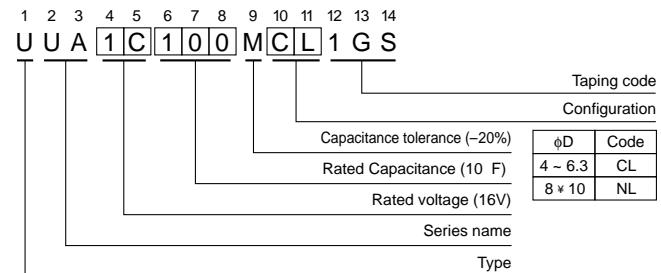
(φ4 ~ 6.3)



(φ8 × 10, φ10 × 10)



Type numbering system (Example : 16V 10μF)



Voltage

V	6.3	10	16	25	35	50
Code	j	A	C	E	V	H

φD × L	4 × 5.8	5 × 5.8	6.3 × 5.8	6.3 × 7.7	8 × 10	10 × 10
A	1.8	2.1	2.4	2.4	2.9	3.2
B	4.3	5.3	6.6	6.6	8.3	10.3
C	4.3	5.3	6.6	6.6	8.3	10.3
E	1.0	1.3	2.2	2.2	3.1	4.5
L	5.8	5.8	5.8	7.7	10	10
H	0.5 ~ 0.8	0.5 ~ 0.8	0.5 ~ 0.8	0.5 ~ 0.8	0.8 ~ 1.1	0.8 ~ 1.1

● Dimension table in next page.

CAT.8100V

UA series

■Dimensions

Cap.(μ F)	V	6.3		10		16		25		35		50	
		Code	0J	Code	1A	Code	1C	Code	1E	Code	1V	Code	1H
0.1	0R1											4×5.8	1
0.22	R22											4×5.8	2.6
0.33	R33											4×5.8	3.2
0.47	R47											4×5.8	5
1	010											4×5.8	8
2.2	2R2											4×5.8	12
3.3	3R3											4×5.8	17
4.7	4R7											4×5.8	22
10	100					4×5.8	18	5×5.8	27	5×5.8	27	6.3×5.8	32
22	220	4×5.8	22	5×5.8	30	5×5.8	30	6.3×5.8	44	6.3×5.8	44	6.3×7.7	58
33	330	5×5.8	35	5×5.8	35	6.3×5.8	48	6.3×5.8	50	6.3×7.7	57	8×10	140
47	470	5×5.8	38	6.3×5.8	50	6.3×5.8	50	6.3×7.7	63	8×10	92	8×10	170
100	101	6.3×5.8	69	6.3×7.7	81	6.3×7.7	81	8×10	116	10×10	151	10×10	310
220	221	6.3×7.7	120	8×10	141	10×10	216	10×10	320	10×10	375		
330	331	8×10	290	10×10	290	10×10	290	10×10	450				
470	471	10×10	320	10×10	320	10×10	320						
1000	102	10×10	410									Case size ΦD×L (mm)	Rated ripple

Rated Ripple (mA rms) at 105°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 refer to page 3 for the minimum order quantity.