

ALUMINUM ELECTROLYTIC CAPACITORS

nichicon



Chip Type, Low Impedance
series



- Chip type, low impedance temperature range up to +105°C.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU).

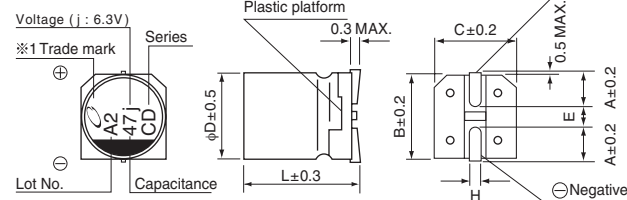


Specifications

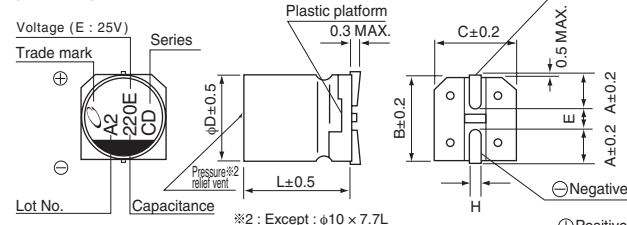
Item	Performance Characteristics
Category Temperature Range	-55 to +105°C
Rated Voltage Range	6.3 to 100V
Rated Capacitance Range	1 to 3300F
Capacitance Tolerance	±20% at 120Hz, 20°C
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.01 CV or 3 (μA), whichever is greater.
Tangent of loss angle (tan δ)	Measurement frequency : 120Hz at 20°C
	Rated voltage (V)
	tan δ (MAX.)
Stability at Low Temperature	Measurement frequency : 120Hz
	Rated voltage (V)
	Impeance ratio
	ZT / Z20 (MAX.)
	ZT / Z20 (MAX.)
Endurance	Capacitance Change
	tan δ
	Leakage current
Shelf Life	Capacitance Change
	tan δ
	Leakage current
Resistance to soldering heat	Capacitance Change
	tan δ
	Leakage current
Marking	Black print on the case top.

Chip Type

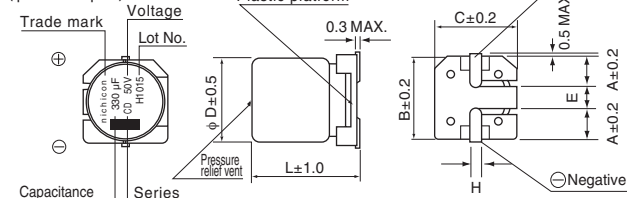
(φ4 to φ8 × φ6.2)



(φ8 × 10, φ10)



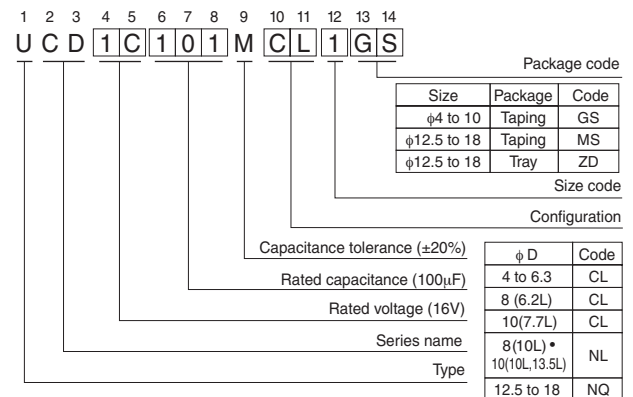
(φ12.5 to φ18)



※φ8 × 10L, φ10 × 10L, φ12.5 × 13.5L, φ16 × 16.5L, φ18 × 16.5L :
The vibration structure-resistant product is also available upon request, please ask for details.

• Dimension table in next page.

Type numbering system (Example : 16V 100μF)



φD × L	4 × 5.8	5 × 5.8	6.3 × 5.8	6.3 × 7.7	8 × 6.2	8 × 10	10 × 7.7	10 × 10	(mm)
A	1.8	2.1	2.4	2.4	3.3	2.9	3.2	3.2	
B	4.3	5.3	6.6	6.6	8.3	8.3	10.3	10.3	
C	4.3	5.3	6.6	6.6	8.3	8.3	10.3	10.3	
E	1.0	1.3	2.2	2.2	2.3	3.1	4.5	4.5	
L	5.8	5.8	5.8	7.7	6.2	10	7.7	10	
H	0.5 to 0.8	0.5 to 0.8	0.5 to 0.8	0.5 to 0.8	0.5 to 0.8	0.8 to 1.1	0.8 to 1.1	0.8 to 1.1	

φD × L	10 × 13.5	12.5 × 13.5	16 × 16.5	18 × 16.5
A	3.2	4.8	5.4	6.4
B	10.3	13.6	17.1	19.1
C	10.3	13.6	17.1	19.1
E	4.5	4.0	6.3	6.3
L	13.5	13.5	16.5	16.5
H	0.8 to 1.1	1.0 to 1.4	1.0 to 1.4	1.0 to 1.4

Voltage

V	6.3	10	16	25	35	50	63	80	100
Code	j	A	C	E	V	H	J	K	2A

CAT.8100D



■ Dimensions

Cap. (μF)	V Code	6.3			10			16			25			35			50		
		0J			1A			1C			1E			1V			1H		
1	010																4 × 5.8	2.70	60
2.2	2R2																4 × 5.8	2.70	60
3.3	3R3																4 × 5.8	2.70	60
4.7	4R7													4 × 5.8	1.35	90	4 × 5.8	2.70	60
10	100							4 × 5.8	1.35	90	4 × 5.8	1.35	90	● 4 × 5.8	1.35	90	● 5 × 5.8	1.50	90
														5 × 5.8	0.70	160	6.3 × 5.8	0.86	170
15	150							4 × 5.8	1.35	90	5 × 5.8	0.70	160						
22	220	4 × 5.8	1.35	90	4 × 5.8	1.35	90	● 4 × 5.8	1.35	90	5 × 5.8	0.70	160	5 × 5.8	0.70	160	6.3 × 5.8	0.86	170
								5 × 5.8	0.70	160									
27	270	4 × 5.8	1.35	90	5 × 5.8	0.70	160	5 × 5.8	0.70	160	6.3 × 5.8	0.36	240						
33	330	5 × 5.8	0.70	160	● 4 × 5.8	1.35	90	6.3 × 5.8	0.36	240	● 5 × 5.8	0.70	160	6.3 × 5.8	0.36	240	6.3 × 7.7	0.66	195
					5 × 5.8	0.70	160				6.3 × 5.8	0.36	240				● 8 × 6.2	0.63	200
47	470	● 4 × 5.8	1.35	90	6.3 × 5.8	0.36	240	● 5 × 5.8	0.70	160	6.3 × 5.8	0.36	240	6.3 × 5.8	0.36	240	6.3 × 7.7	0.66	195
		5 × 5.8	0.70	160				6.3 × 5.8	0.36	240							● 8 × 6.2	0.63	200
56	560	5 × 5.8	0.70	160	6.3 × 5.8	0.36	240	6.3 × 5.8	0.36	240	6.3 × 5.8	0.36	240						
68	680	6.3 × 5.8	0.36	240	6.3 × 5.8	0.36	240	6.3 × 5.8	0.36	240	6.3 × 5.8	0.36	240	6.3 × 7.7	0.32	290			
100	101	● 5 × 5.8	0.70	160	6.3 × 5.8	0.36	240	6.3 × 5.8	0.36	240	6.3 × 7.7	0.32	290	● 6.3 × 7.7	0.32	290	8 × 10	0.32	350
		6.3 × 5.8	0.36	240							● 8 × 6.2	0.26	300	8 × 10	0.16	600	● 10 × 7.7	0.36	330
150	151	6.3 × 5.8	0.36	240	6.3 × 5.8	0.36	240	6.3 × 7.7	0.32	290	8 × 10	0.16	600	8 × 10	0.16	600	10 × 10	0.16	700
								● 10 × 7.7	0.18	600	● 10 × 7.7	0.18	600	● 10 × 7.7	0.18	600			
220	221	6.3 × 5.8	0.36	240	6.3 × 7.7	0.32	290	6.3 × 7.7	0.32	290	8 × 10	0.16	600	8 × 10	0.16	600	10 × 10	0.16	700
					● 8 × 6.2	0.26	300	● 8 × 6.2	0.26	300	● 10 × 7.7	0.18	600	● 10 × 7.7	0.18	600			
330	331	6.3 × 7.7	0.32	290	8 × 10	0.16	600	8 × 10	0.16	600	8 × 10	0.16	600	10 × 10	0.08	850	● 10 × 13.5	0.14	800
		● 8 × 6.2	0.26	300	● 10 × 7.7	0.18	600	● 10 × 7.7	0.18	600							12.5 × 13.5	0.12	900
390	391																12.5 × 13.5	0.12	900
470	471	8 × 10	0.16	600	8 × 10	0.16	600	8 × 10	0.16	600	10 × 10	0.08	850	● 10 × 13.5	0.08	950	16 × 16.5	0.073	1610
		● 10 × 7.7	0.18	600	● 10 × 7.7	0.18	600	● 10 × 7.7	0.18	600				12.5 × 13.5	0.08	1100			
680	681	8 × 10	0.16	600	10 × 10	0.08	850	10 × 10	0.08	850	10 × 13.5	0.08	950	12.5 × 13.5	0.08	1100	16 × 16.5	0.073	1610
		● 10 × 7.7	0.18	600															
1000	102	8 × 10	0.16	600	10 × 10	0.08	850	10 × 13.5	0.08	950	12.5 × 13.5	0.08	1100	16 × 16.5	0.035	1800			
1500	152	10 × 10	0.08	850	10 × 13.5	0.08	950	12.5 × 13.5	0.08	1100									
2200	222	10 × 13.5	0.08	950	12.5 × 13.5	0.08	1100				16 × 16.5	0.035	1800				Case size φD × L (mm)		
3300	332	12.5 × 13.5	0.08	1100															

Cap. (μF)	V Code	63			80			100		
		1J			1K			2A		
3.3	3R3				5 × 5.8	5.00	25			
4.7	4R7	5 × 5.8	3.00	50	6.3 × 5.8	3.00	40			
10	100	6.3 × 5.8	1.50	80	6.3 × 7.7	2.40	60			
					● 8 × 6.2	2.40	60			
22	220	6.3 × 7.7	1.20	120	8 × 10	1.30	130	8 × 10	1.30	130
		● 8 × 6.2	1.20	120						
33	330	8 × 10	0.65	250	8 × 10	1.30	130	10 × 10	0.70	200
47	470	8 × 10	0.65	250	10 × 10	0.70	200	12.5 × 13.5	0.32	500
68	680	10 × 10	0.35	400	12.5 × 13.5	0.32	500	12.5 × 13.5	0.32	500
100	101	10 × 10	0.35	400	12.5 × 13.5	0.32	500	16 × 16.5	0.17	793
150	151	12.5 × 13.5	0.16	800	12.5 × 13.5	0.32	500	16 × 16.5	0.17	793
220	221	12.5 × 13.5	0.16	800				18 × 16.5	0.15	917
330	331				16 × 16.5	0.17	793	18 × 16.5	0.15	917
470	471	16 × 16.5	0.082	1410	18 × 16.5	0.15	917	Case size φD × L (mm)		
680	681	18 × 16.5	0.08	1690						

Max. Impedance (Ω) at 20°C 100kHz, Rated ripple current (mA rms) at 105°C 100kHz

● : In this case, [6] will be put at 12th digit of type numbering system.

● Frequency coefficient of rated ripple current

Frequency	50Hz	120Hz	300Hz	1kHz	10kHz or more
Coefficient	0.35	0.50	0.64	0.83	1.00

- Taping specifications are given in page 23.
- Recommended land size, soldering by reflow are given in page 18, 19.
- Please refer to page 3 for the minimum order quantity.

Mouser Electronics

Authorized Distributor

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Nichicon:

<u>UCD0J101MCL6GS</u>	<u>UCD0J331MCLGS</u>	<u>UCD0J331MCL6GS</u>	<u>UCD0J470MCL6GS</u>	<u>UCD1A221MCL6GS</u>
<u>UCD1A330MCL6GS</u>	<u>UCD1C220MCL6GS</u>	<u>UCD1C221MCL6GS</u>	<u>UCD1C470MCL6GS</u>	<u>UCD1E101MCL6GS</u>
<u>UCD1E330MCL6GS</u>	<u>UCD1H100MCL6GS</u>	<u>UCD1H330MCL6GS</u>	<u>UCD1H470MCL6GS</u>	<u>UCD1J220MCL6GS</u>
<u>UCD1K100MCL6GS</u>	<u>UCD1V100MCL6GS</u>	<u>UCD1V101MCL6GS</u>	<u>UCD0J101MCL1GS</u>	<u>UCD0J102MNL1GS</u>
<u>UCD0J152MNL1GS</u>	<u>UCD0J220MCL1GS</u>	<u>UCD0J221MCL1GS</u>	<u>UCD0J331MCL1GS</u>	<u>UCD0J470MCL1GS</u>
<u>UCD0J471MNL1GS</u>	<u>UCD1A102MNL1GS</u>	<u>UCD1A151MCL1GS</u>	<u>UCD1A220MCL1GS</u>	<u>UCD1A221MCL1GS</u>
<u>UCD1A330MCL1GS</u>	<u>UCD1A331MNL1GS</u>	<u>UCD1A471MNL1GS</u>	<u>UCD1A681MNL1GS</u>	<u>UCD1C100MCL1GS</u>
<u>UCD1C101MCL1GS</u>	<u>UCD1C151MCL1GS</u>	<u>UCD1C220MCL1GS</u>	<u>UCD1C221MCL1GS</u>	<u>UCD1C331MNL1GS</u>
<u>UCD1C470MCL1GS</u>	<u>UCD1C471MNL1GS</u>	<u>UCD1C681MNL1GS</u>	<u>UCD1E100MCL1GS</u>	<u>UCD1E101MCL1GS</u>
<u>UCD1E151MNL1GS</u>	<u>UCD1E220MCL1GS</u>	<u>UCD1E221MNL1GS</u>	<u>UCD1E330MCL1GS</u>	<u>UCD1E331MNL1GS</u>
<u>UCD1E470MCL1GS</u>	<u>UCD1E471MNL1GS</u>	<u>UCD1E680MCL1GS</u>	<u>UCD1H100MCL1GS</u>	<u>UCD1H101MNL1GS</u>
<u>UCD1H151MNL1GS</u>	<u>UCD1H220MCL1GS</u>	<u>UCD1H221MNL1GS</u>	<u>UCD1H330MCL1GS</u>	<u>UCD1H470MCL1GS</u>
<u>UCD1H470MCL1GS</u>	<u>UCD1J100MCL1GS</u>	<u>UCD1J101MNL1GS</u>	<u>UCD1J220MCL1GS</u>	<u>UCD1J330MNL1GS</u>
<u>UCD1J470MCL1GS</u>	<u>UCD1J470MNL1GS</u>	<u>UCD1J680MNL1GS</u>	<u>UCD1K100MCL1GS</u>	<u>UCD1K220MNL1GS</u>
<u>UCD1K330MCL1GS</u>	<u>UCD1K330MNL1GS</u>	<u>UCD1K470MCL1GS</u>	<u>UCD1K470MNL1GS</u>	<u>UCD1V100MCL1GS</u>
<u>UCD1V101MNL1GS</u>	<u>UCD1V151MNL1GS</u>	<u>UCD1V220MCL1GS</u>	<u>UCD1V221MNL1GS</u>	<u>UCD1V330MCL1GS</u>
<u>UCD1V331MNL1GS</u>	<u>UCD1V470MCL1GS</u>	<u>UCD1V470MCL1GS</u>	<u>UCD1V471MNL1GS</u>	<u>UCD1V680MCL1GS</u>
<u>UCD1V681MNL1GS</u>	<u>UCD2A101MNL1GS</u>	<u>UCD2A151MNL1GS</u>	<u>UCD2A220MNL1GS</u>	<u>UCD2A221MNL1GS</u>
<u>UCD2A330MNL1GS</u>	<u>UCD2A331MNL1GS</u>	<u>UCD2A470MNL1GS</u>	<u>UCD2A680MNL1GS</u>	<u>UCD1H681MNL1GS</u>
<u>UCD1V331MNL1GS</u>	<u>UCD1E102MNL1GS</u>	<u>UCD1E222MNL1GS</u>	<u>UCD1H331MNL1GS</u>	<u>UCD1H471MNL1GS</u>