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EN: This Datasheet is presented by the manufacturer.

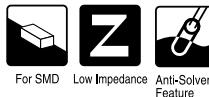
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ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

CD

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).

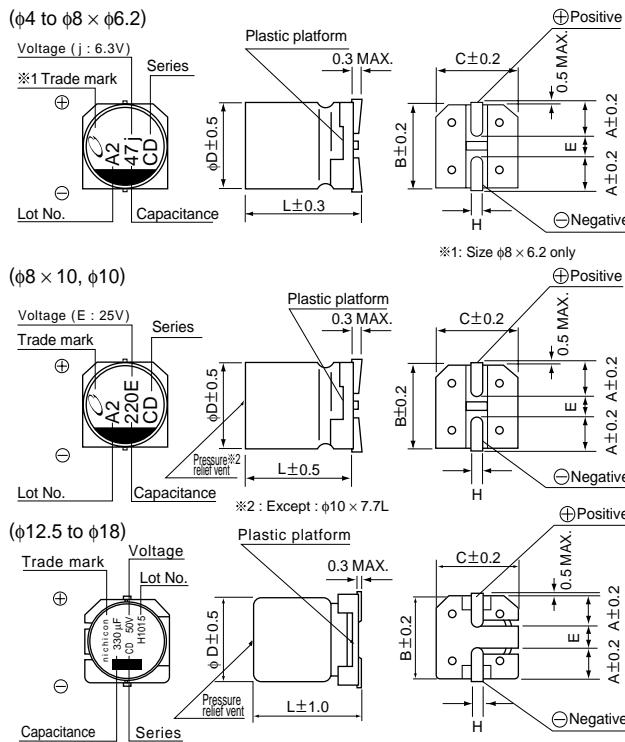
CL Low Impedance CD Low Impedance UD



■ Specifications

Item	Performance Characteristics																																																
Category Temperature Range	−55 to +105°C																																																
Rated Voltage Range	6.3 to 100V																																																
Rated Capacitance Range	1 to 3300μF																																																
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)	<table border="1"> <thead> <tr> <th>Rated voltage (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>80</th> <th>100</th> </tr> </thead> <tbody> <tr> <td>tan δ (MAX.)</td> <td>0.26</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.08</td> <td>0.08</td> <td>0.07</td> </tr> </tbody> </table>									Rated voltage (V)	6.3	10	16	25	35	50	63	80	100	tan δ (MAX.)	0.26	0.19	0.16	0.14	0.12	0.10	0.08	0.08	0.07																				
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Z−55°C / Z+20°C	4	4	3	3	3	3	3	3	3																																								
Endurance	<p>The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 5000 hours (2000 hours for L < 10 mm: 50V or less, and for L ≤ 10mm: 63V or more) at 105°C.</p> <table border="1"> <thead> <tr> <th>Capacitance Change</th> <th>Within ± 30% of the initial capacitance value</th> </tr> </thead> <tbody> <tr> <td>tan δ</td> <td>200% or less than the initial specified value 300% or less than the initial specified value for 63V or more</td> </tr> <tr> <td>Leakage current</td> <td>Less than or equal to the initial specified value</td> </tr> </tbody> </table>									Capacitance Change	Within ± 30% of the initial capacitance value	tan δ	200% or less than the initial specified value 300% or less than the initial specified value for 63V or more	Leakage current	Less than or equal to the initial specified value																																		
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Shelf Life	After storing the capacitors under no load at 105°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they shall meet the specified values for the endurance characteristics listed above.																																																
Resistance to soldering heat	The capacitors are kept on a hot plate for 30 seconds, which is maintained at 250°C. The capacitors shall meet the characteristic requirements listed at right when they are removed from the plate and restored to 20°C.																																																
Marking	Black print on the case top.																																																

■ Chip Type

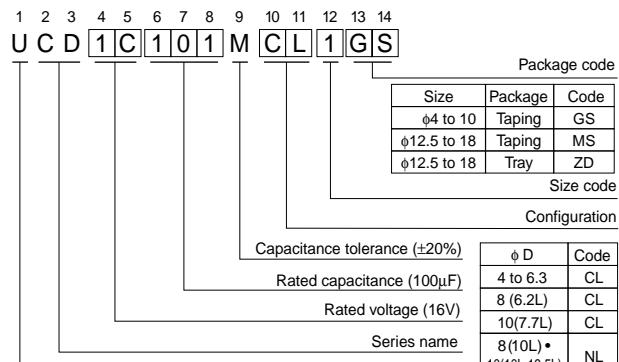


※Φ8 × 10L, Φ10 × 10L, Φ12.5 × 13.5L, Φ16 × 16.5L, Φ18 × 16.5L :

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)



Φ D × 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	0.8 to 1.1	0.8 to 1.1	0.8 to 1.1					

Φ D × 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.8100C

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V	6.3	10	16	25	35	50	
Cap. (μ F)	Code	0J	1A	1C	1E	1V	1H
1	010						
2.2	2R2						
3.3	3R3						
4.7	4R7						
10	100			4 × 5.8 1.35 90			
15	150			4 × 5.8 1.35 90			
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			
27	270	4 × 5.8 1.35 90	5 × 5.8 0.70 160	5 × 5.8 0.70 160			
33	330	5 × 5.8 0.70 160	4 × 5.8 1.35 90 5 × 5.8 0.70 160	6.3 × 5.8 0.36 240			
47	470	4 × 5.8 1.35 90 5 × 5.8 0.70 160	6.3 × 5.8 0.36 240	5 × 5.8 0.70 160 6.3 × 5.8 0.36 240			
56	560	5 × 5.8 0.70 160	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			
100	101	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			
150	151	6.3 × 5.8 0.36 240	6.3 × 5.8 0.36 240	6.3 × 7.7 0.32 290			
220	221	6.3 × 5.8 0.36 240	6.3 × 7.7 0.32 290 8 × 6.2 0.26 300	6.3 × 7.7 0.32 290 8 × 6.2 0.26 300			
330	331	6.3 × 7.7 0.32 290 8 × 6.2 0.26 300	8 × 10 0.16 600 10 × 7.7 0.18 600	8 × 10 0.16 600 10 × 7.7 0.18 600			
390	391						
470	471	8 × 10 0.16 600 10 × 7.7 0.18 600	8 × 10 0.16 600 10 × 7.7 0.18 600	0.16 600 0.18 600			
680	681	8 × 10 0.16 600 10 × 7.7 0.18 600	10 × 10 0.08 850	0.08 850			
1000	102	8 × 10 0.16 600	10 × 10 0.08 850	0.08 950			
1500	152	10 × 10 0.08 850	10 × 13.5 0.08 950	0.08 1100			
2200	222	10 × 13.5 0.08 950	12.5 × 13.5 0.08 1100				
3300	332	12.5 × 13.5 0.08 1100					