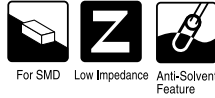


ALUMINUM ELECTROLYTIC CAPACITORS

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).

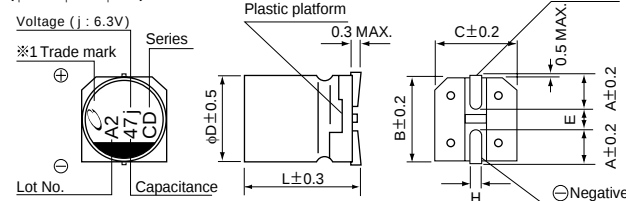


Specifications

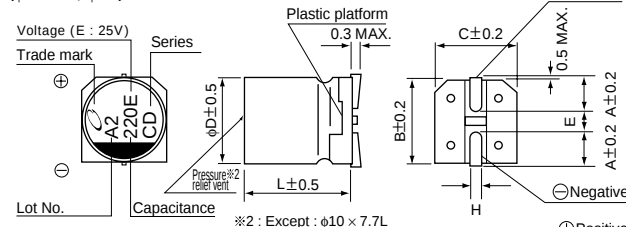
Item	Performance Characteristics										
Category Temperature Range	– 55 to +105°C										
Rated Voltage Range	6.3 to 100V										
Rated Capacitance Range	1 to 3300μF										
Capacitance Tolerance	± 20% at 120Hz, 20°C										
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.01 CV or 3 (μA), whichever is greater.										
Tangent of loss angle (tan δ)	Measurement frequency : 120Hz at 20°C										
	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
	For capacitance of more than 1000μF, add 0.02 for every increase of 1000μF.										
Stability at Low Temperature	Measurement frequency : 120Hz										
	Rated voltage (V)		6.3	10	16	25	35	50	63	80	100
	Impedance ratio ZT / Z20 (MAX.)	Z—25°C / Z+20°C	2	2	2	2	2	2	2	2	2
		Z—40°C / Z+20°C	3	3	3	3	3	3	3	3	3
		Z—55°C / Z+20°C	4	4	4	3	3	3	3	3	3
Endurance	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.				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				
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.				Capacitance Change		Within ± 10% of the initial capacitance value				
					tan δ		Less than or equal to the initial specified value				
					Leakage current		Less than or equal to the initial specified value				
Marking	Black print on the case top.										

Chip Type

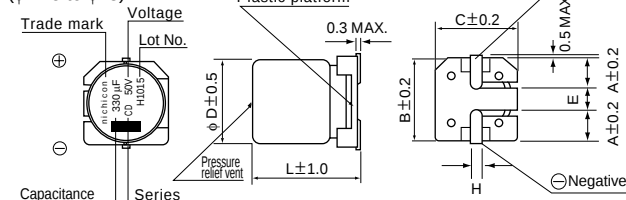
(φ4 to φ8 × φ6.2)



(φ8 × 10, φ10)



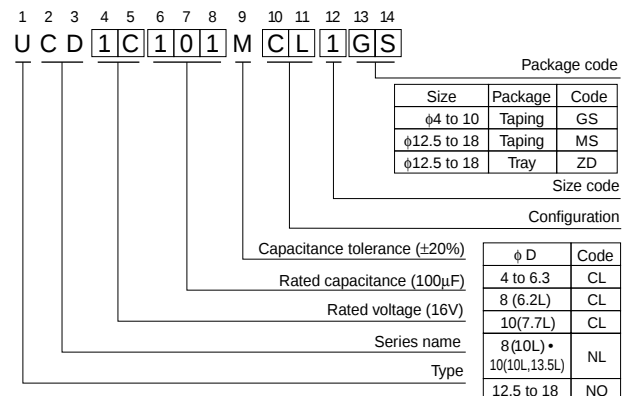
(φ12.5 to φ18)



※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.8100C

series

Cap. (μF)	V Code	6.3	10	16	25	35	50
		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					