ALUMINUM ELECTROLYTIC CAPACITORS



- For SMD Low Impedance Anti-Solven Feature
- Chip type, low impedance temperature range up to +105C.
- 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).

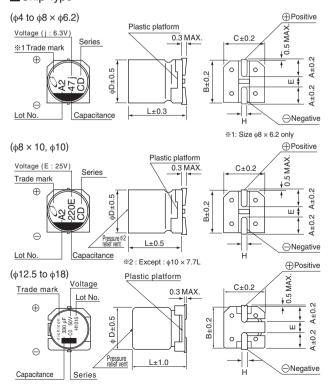




■Specifications

Specifications														
Item		Performance Characteristics												
Category Temperature Range	– 55 to +105°C	- 55 to +105°C												
Rated Voltage Range	6.3 to 100V	.3 to 100V												
Rated Capacitance Range	1 to 3300F	to 3300F												
Capacitance Tolerance	±20% at 120Hz, 2	20% at 120Hz, 20°C												
Leakage Current	After 2 minutes' a	fter 2 minutes' application of rated voltage, leakage current is not more than 0.01 CV or 3 (μA), whichever is greater.												
	Measurement frequency : 120Hz at 20°C													
Tangent of loss angle (tan δ)	Rated voltage (V)	6.3	10	16	25	3	35	50	63	80	100		
J 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	tan δ (MAX.)		0.26	0.19	0.16	0.14	0.	12	0.10	0.08	0.08	0.07]	
	For capacitance o	f more than 1000µF, a	add 0.02 f	or every ir	ncrease o	of 1000µF.								
										· ·	ncy : 120Hz	: 1		
	Rated voltage (V		6.3	10	16	25	_	35	50	63	80	100	-	
Stability at Low Temperature	Impecance ratio ZT / Z20 (MAX.)	Z—25°C / Z+20°C Z—40°C / Z+20°C	3	3	3	3		3	3	2	2	3	-	
		Z—55°C / Z+20°C	4	4	4	3		3	3	3	3	3	-	
		2 33 07 2+20 0					<u> </u>		0					
	The specifications	n the	Capacitance Change Within ± 30% of the initial capacitance value]				
Endurance		tored to 20°C after the			tan δ					r less than the initial specified value				
		ours (2000 hours for ≤ 10mm: 63V or more			Looko	ge current				r less than the initial specified value for 63V or more				
					Leaka	ge current		Less t	nan or	equal to	tne initiai	specified v	alue	
Shelf Life		apacitors under no lo leet the specified valu							age tre	eatment b	ased on J	IS C 5101-	4 clause 4.1 at	
Resistance to soldering		e kept on a hot plate t °C. The capacitors sh				dia dipendinana				Within ± 10% of the initial capacitance value				
heat		d at right when they a				tan δ Leakage current			-	Less than or equal to the initial specified value Less than or equal to the initial specified value				
Marking	Black print on the	case top.												

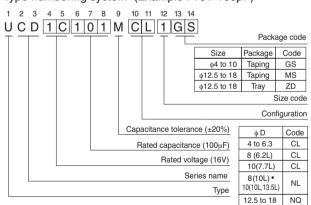
■Chip Type



% 48 × 10L, ϕ 10 × 10L, ϕ 12.5 × 13.5L, ϕ 16 × 16.5L, ϕ 18 × 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)
Α	1.8	2.1	2.4	2.4	3.3	2.9	3.2	3.2	
В	4.3	5.3	6.6	6.6	8.3	8.3	10.3	10.3	
С	4.3	5.3	6.6	6.6	8.3	8.3	10.3	10.3	
Е	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	
Н	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
Α	3.2	4.8	5.4	6.4
В	10.3	13.6	17.1	19.1
С	10.3	13.6	17.1	19.1
Е	4.5	4.0	6.3	6.3
L	13.5	13.5	16.5	16.5
Н	0.8 to 1.1	1.0 to 1.4	1.0 to 1.4	1.0 to 1.4

Voltage

onago									
V	6.3	10	16	25	35	50	63	80	100
Code	i	Δ	С	F	V	н		К	2Δ



■ Dimensions

	V	6	.3			10			16		2	25		35			50					
Cap. (µF)	Code	С)J		-	1A		1C		1E			1	V		-	ΙΗ					
1	010					1	1		1			1	1				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		1			1							ı	4 × 5.8	1.35	90	4 × 5.8	2.70	60			
40	100		1			1			1 05		4 50	1.05	1 00	●4×5.8	1.35	90	● 5 × 5.8					
10	100		 			! !		4 × 5.8	1 1.35 1	90	4 × 5.8	1 1.35		5 × 5.8	0.70	160	6.3 × 5.8	0.86				
15	150		1			l I		4 × 5.8	1.35	90	5 × 5.8	0.70	160					1 1				
22	220	4 × 5.8	1.35	90	4 × 5.8	1 1 1.35	90		1.35	90 160	5 × 5.8	0.70	1 1 160	5 × 5.8	0.70	160	6.3 × 5.8	0.86	170			
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					 				
22	220	EVEO	0.70	160	● 4 × 5.8	1.35	90	60,450	1 0 26	240	●5 × 5.8	0.70	160	6.3 × 5.8	62 4 5 9 1	60,450	60,50	I E 0 0.00	1 240	6.3 × 7.7	0.66	195
33	330	5 × 5.8	0.70	160	5 × 5.8	0.70	160	6.3 × 5.8	0.36	240	6.3 × 5.8	0.36	240	0.3 X 3.8	0.36	240 	● 8 × 6.2	0.63	200			
47	470	● 4 × 5.8	1.35	90	6.3 × 5.8	0.36	1 240	● 5 × 5.8	0.70	160	6.3 × 5.8	1 0 26	1 240	6.3 × 5.8 1 0.36		1 240	6.3 × 7.7	0.66	195			
47	470	5 × 5.8	0.70	160	0.3 X 3.6	1	240	6.3 × 5.8	0.36		0.3 X 3.6	0.30	240	0.3 X 3.6	0.30	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			6.3 × 5.8	0.36	240	6.3 × 5.8	. 0.36	240	6.3 × 7.7	0.32		●6.3 × 7.7	0.32	290	8 × 10	0.32				
100	101	6.3 × 5.8			0.3 × 3.6	1 0.30	1 240	0.5 × 5.6	1 0.30	1		0.26		8 × 10	0.16		●10 × 7.7					
150	151	6.3 × 5.8	0.36	240	6.3 × 5.8	0.36	1 240	6.3 × 7.7	U 33	200	8 × 10	0.16	600	8 × 10	0.16	600	10 × 10	0.16	700			
130	131	0.5 × 5.6	1 0.30	240	0.3 × 3.6	1 0.30	1 240	0.5 × 7.7	1 0.32	290	●10 × 7.7	0.18	600	● 10 × 7.7	0.18	600	10 × 10	1 0.10	700			
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			
220	221	0.0 × 0.0	0.00	240	●8×6.2	0.26	300	●8 × 6.2	0.26	300	●10 × 7.7	0.18	600	●10 × 7.7	0.18	600	10 × 10	1 0.10	700			
330	331	6.3 × 7.7	0.32	290	8 × 10	0.16	600	8 × 10	0.16	600	8 × 10	1 1 0.16	l 600	10 × 10	เ เกษา	I I 850	●10 × 13.5	0.14	800			
000	001	●8×6.2	0.26	300	●10 × 7.7	0.18	600	●10 × 7.7	0.18	600	0 × 10	0.10	, 000 	10 × 10	U.00		12.5 × 13.5	0.12	900			
390	391								1								12.5 × 13.5	0.12	900			
470	471	8 × 10	0.16	600	8 × 10			8 × 10			10 × 10	1 0 08	I 850	●10 × 13.5			16 × 16.5	10 073	1610			
470	471	●10 × 7.7	0.18	600				●10 × 7.7			10 × 10	1		12.5 × 13.5				1	1010			
680	681	8 × 10 ●10 × 7.7	r 1		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			
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		1 1	l I					1 1				
2200	222	10 × 13.5	0.08	950	12.5 × 13.5	0.08	1100		I I		16 × 16.5	0.035	1800			l I	Case size φD × L		Rated			
3300	332	12.5 × 13.5	0.08	1100		I .			1			1				_	φD x L (mm)	I I	ripple			

	V	6	3		8	30		100		
Cap. (µF)	Code	1	J		1	ΙK		2	2A	
3.3	3R3		 	 	5 × 5.8	5.00	25		l I	l I
4.7	4R7	5 × 5.8	3.00	50	6.3 × 5.8	3.00	40		l I	l I
10	100	6050	1 1 50	ı 1 80	6.3 × 7.7	2.40	60		l I	I I
10	100	6.3 × 5.8	1.50	1 80	● 8 × 6.2	2.40	60			l I
00	220	6.3 × 7.7	1.20	120	010	1 1 00	1 100	8 × 10	1 1.30	1 100
22	220	● 8 × 6.2	1.20	120	8 × 10	1.30	130	0 × 10	1.30	130
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		I I	l I	18 × 16.5	0.15	917
330	331		 	I I	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	l I	I Rated
680	681	18 × 16.5	0.08	1690		1	1	φD×L (mm)	Impedance	ripple

Max. Impedance (Ω) at 20°C 100kHz, Rated ripple current (mArms) 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 refrow 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:

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UCD0J101MCL6GS UCD0J331MCL6GS UCD0J470MCL6GS UCD1A221MCL6GS UCD1A330MCL6GS
UCD1C220MCL6GS UCD1C221MCL6GS UCD1C470MCL6GS UCD1E101MCL6GS UCD1E330MCL6GS
UCD1H100MCL6GS UCD1H330MCL6GS UCD1H470MCL6GS UCD1J220MCL6GS UCD1K100MCL6GS
UCD1V100MCL6GS UCD1V101MCL6GS UCD0J101MCL1GS UCD0J102MNL1GS UCD0J152MNL1GS
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UCD1A102MNL1GS UCD1A151MCL1GS UCD1A220MCL1GS UCD1A221MCL1GS UCD1A330MCL1GS
UCD1A331MNL1GS UCD1A471MNL1GS UCD1A681MNL1GS UCD1C100MCL1GS UCD1C101MCL1GS
UCD1C151MCL1GS UCD1C220MCL1GS UCD1C221MCL1GS UCD1C331MNL1GS UCD1C470MCL1GS
UCD1C471MNL1GS UCD1C681MNL1GS UCD1E100MCL1GS UCD1E101MCL1GS UCD1E151MNL1GS
UCD1E220MCL1GS UCD1E221MNL1GS UCD1E330MCL1GS UCD1E331MNL1GS UCD1E470MCL1GS
UCD1E471MNL1GS UCD1E680MCL1GS UCD1H100MCL1GS UCD1H101MNL1GS UCD1H151MNL1GS
UCD1H220MCL1GS UCD1H221MNL1GS UCD1H330MCL1GS UCD1H4R7MCL1GS UCD1H470MCL1GS
UCD1J100MCL1GS UCD1J101MNL1GS UCD1J220MCL1GS UCD1J330MNL1GS UCD1J4R7MCL1GS
UCD1J470MNL1GS UCD1J680MNL1GS UCD1K100MCL1GS UCD1K220MNL1GS UCD1K3R3MCL1GS
UCD1K330MNL1GS UCD1K4R7MCL1GS UCD1K470MNL1GS UCD1V100MCL1GS UCD1V101MNL1GS
UCD1V151MNL1GS UCD1V220MCL1GS UCD1V221MNL1GS UCD1V330MCL1GS UCD1V331MNL1GS
UCD1V4R7MCL1GS UCD1V470MCL1GS UCD1V471MNQ1MS UCD1V680MCL1GS UCD1V681MNQ1MS
UCD2A101MNQ1MS UCD2A151MNQ1MS UCD2A220MNL1GS UCD2A221MNQ1MS UCD2A330MNL1GS
UCD2A331MNQ1MS UCD2A470MNQ1MS UCD2A680MNQ1MS UCD1H681MNQ1MS UCD1E102MNQ1MS
UCD1E222MNQ1MS UCD1H331MNQ1MS UCD1H471MNQ1MS UCD1J471MNQ1MS UCD1J221MNQ1MS
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