ALUMINUM ELECTROLYTIC CAPACITORS

Chip Type, Low Impedance



- 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,(EU)2015/863).
- AEC-Q200 compliant. Please contact us for details.

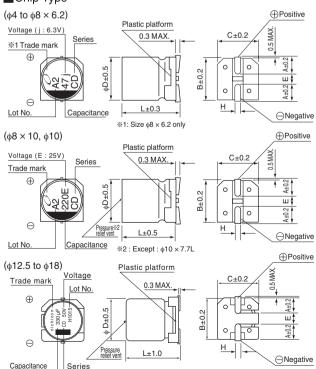




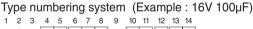
Specifications

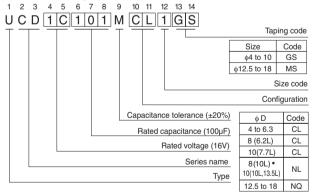
- opecifications													
Item		Performance Characteristics											
Category Temperature Range	– 55 to +105°C												
Rated Voltage Range	6.3 to 100V												
Rated Capacitance Range	1 to 3300µF												
Capacitance Tolerance	±20% at 120Hz, 20°C												
Leakage Current	After 2 minutes' ap	After 2 minutes' application of rated voltage at 20°C, leakage current is not more than 0.01 CV or 3 (μA), whichever is greater.											
	Rated voltage (V))	6.3	10	16	25	35	50	63	80	100	1.,	
Tangent of loss angle (tan δ)	tan δ (MAX.)		0.26	0.19	0.16	0.14	0.12	0.10	0.08	0.08	0.07	Measurement frequency: 120Hz at 20°C	
	For capacitance of	f more than 1000µF,	add 0.02	for every in	ncrease	of 1000µF.	(φ12.5 to ¢	18)		'		3 1411 17	
	Rated voltage (V))	6.3	10	16	25	35	50	63	80	100]	
Stability at Low Temperature		Z-25°C / Z+20°C	2	2	2	2	2	2	2	2	2	1	
Stability at Low Temperature	Impedance ratio	Z-40°C / Z+20°C	3	3	3	3	3	3	3	3	3	Measurement	
	(MAX.)	Z-55°C / Z+20°C	4	4	4	3	3	3	3	3	3	frequency: 120Hz	
	The specifications	s listed below shall	be met	Rated Volta	00	Size (mm)	~7.7L	. 10	L d	10×13.5L	13.5L~]	
	when the capaci	d to 20°C			V	2000h	500	- '	5000h	5000h	1		
	for the conditions	oltage is applied at listed at right.	63 ~100			0V 2000h		200	0h	5000h	5000h	h=hours	
Endurance	Capacitance Cha	nge Within ± 30%	of the ini	tial canaci	tance va	lue	1						
	tan δ	200% or less 300% or less	than the	initial spec	ified val	ue	or more						
	Leakage current	'											
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.												
		kept on a hot plate t				Capacitan	ce Chang	e Wi	ithin ± 1	0% of the	e initial capa	acitance value	
Resistance to soldering heat	maintained at 250 requirements lister				tan δ		Le	ss than	or equal	to the initia	specified value		
licat	plate and restored					Leakage o	current	Le	ss than	or equal	to the initia	specified value	
Marking	Black print on the	case top.											

■Chip Type



※ ∮8 × 10L, ∮10 × 10L, ∮12.5 × 13.5L, ∮16 × 16.5L, ∮18 × 16.5L: The vibration structure-resistant product is also available upon request, please ask for details.





ø 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)
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					

ψD×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	10 to 14	1 0 to 1 4

Voltage

V	6.3	10	16	25	35	50	63	80	100	
Code	i	Α	С	Е	V	Н	J	К	2A	

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

UCD

■ Dimensions

Rated Voltage (V) (code)	Rated Capacitance (µF)	Case Size φDXL(mm)	tan δ	Leakage Current (µA) (at 20°C after 2 minutes)	Impedance(Ω) MAX. (20°C/100kHz)	Rated Ripple (mArms) (105°C/100kHz)	Part Number
	22	4×5.8	0.26	3	1.35	90	UCD0J220MCL1GS
	27	4×5.8	0.26	3	1.35	90	UCD0J270MCL1GS
	33	5×5.8	0.26	3	0.70	160	UCD0J330MCL1GS
	47	4×5.8	0.26	3	1.35	90	UCD0J470MCL6GS
	47	5×5.8	0.26	3	0.70	160	UCD0J470MCL1GS
	56	5×5.8	0.26	3.528	0.70	160	UCD0J560MCL1GS
	68	6.3×5.8	0.26	4.284	0.36	240	UCD0J680MCL1GS
	100	5×5.8	0.26	6.3	0.70	160	UCD0J101MCL6GS
	100	6.3×5.8	0.26	6.3	0.36	240	UCD0J101MCL1GS
	150	6.3×5.8	0.26	9.45	0.36	240	UCD0J151MCL1GS
6.3 (0J)	220	6.3×5.8	0.26	13.86	0.36	240	UCD0J221MCL1GS
(00)	330	6.3×7.7	0.26	20.79	0.32	290	UCD0J331MCL1GS
	330	8×6.2	0.26	20.79	0.26	300	UCD0J331MCL6GS
	470	8×10	0.26	29.61	0.16	600	UCD0J471MNL1GS
	470	10×7.7	0.26	29.61	0.18	600	UCD0J471MCL6GS
	680	8×10	0.26	42.84	0.16	600	UCD0J681MNL1GS
	680	10×7.7	0.26	42.84	0.18	600	UCD0J681MCL6GS
	1000	8×10	0.26	63	0.16	600	UCD0J102MNL1GS
	1500	10×10	0.26	94.5	0.080	850	UCD0J152MNL1GS
	2200	10×13.5	0.26	138.6	0.080	950	UCD0J222MNL1GS
	3300	12.5×13.5	0.30	207.9	0.080	1100	UCD0J332MNQ1MS
	22	4×5.8	0.19	3	1.35	90	UCD1A220MCL1GS
	27	5×5.8	0.19	3	0.70	160	UCD1A270MCL1GS
	33	4×5.8	0.19	3.3	1.35	90	UCD1A330MCL6GS
	33	5×5.8	0.19	3.3	0.70	160	UCD1A330MCL1GS
	47	6.3×5.8	0.19	4.7	0.36	240	UCD1A470MCL1GS
	56	6.3×5.8	0.19	5.6	0.36	240	UCD1A560MCL1GS
	68	6.3×5.8	0.19	6.8	0.36	240	UCD1A680MCL1GS
	100	6.3×5.8	0.19	10	0.36	240	UCD1A101MCL1GS
	150	6.3×5.8	0.19	15	0.36	240	UCD1A151MCL1GS
10 (1A)	220	6.3×7.7	0.19	22	0.32	290	UCD1A221MCL1GS
(1A)	220	8×6.2	0.19	22	0.26	300	UCD1A221MCL6GS
	330	8×10	0.19	33	0.16	600	UCD1A331MNL1GS
	330	10×7.7	0.19	33	0.18	600	UCD1A331MCL6GS
	470	8×10	0.19	47	0.16	600	UCD1A471MNL1GS
	470	10×7.7	0.19	47	0.18	600	UCD1A471MCL6GS
	680	10×10	0.19	68	0.080	850	UCD1A681MNL1GS
	1000	10×10	0.19	100	0.080	850	UCD1A102MNL1GS
	1500	10×13.5	0.19	150	0.080	950	UCD1A152MNL1GS
	2200	12.5×13.5	0.21	220	0.080	1100	UCD1A222MNQ1MS
	10	4×5.8	0.16	3	1.35	90	UCD1C100MCL1GS
Ţ	15	4×5.8	0.16	3	1.35	90	UCD1C150MCL1GS
ļ	22	4×5.8	0.16	3.52	1.35	90	UCD1C220MCL6GS
ļ	22	5×5.8	0.16	3.52	0.70	160	UCD1C220MCL1GS
ļ	27	5×5.8	0.16	4.32	0.70	160	UCD1C270MCL1GS
16	33	6.3×5.8	0.16	5.28	0.36	240	UCD1C330MCL1GS
(1C)	47	5×5.8	0.16	7.52	0.70	160	UCD1C470MCL6GS
ļ	47	6.3×5.8	0.16	7.52	0.36	240	UCD1C470MCL1GS
ļ	56	6.3×5.8	0.16	8.96	0.36	240	UCD1C560MCL1GS
ļ	68	6.3×5.8	0.16	10.88	0.36	240	UCD1C680MCL1GS
-	100	6.3×5.8	0.16	16	0.36	240	UCD1C101MCL1GS

UCD

■Dimensions

150	Rated Voltage (V) (code)	Rated Capacitance (µF)	Case Size φD×L(mm)	tan δ	Leakage Current (µA) (at 20°C after 2 minutes)	Impedance (Ω) MAX. (20°C/100kHz)	Rated Ripple (mArms) (105°C/100kHz)	Part Number
220		150	6.3×7.7	0.16	24	0.32	290	UCD1C151MCL1GS
16 330		220	6.3×7.7	0.16	35.2	0.32	290	UCD1C221MCL1GS
16		220	8×6.2	0.16	35.2	0.26	300	UCD1C221MCL6GS
(1C) 470 8 × 10 0.16 75.2 0.16 800 UCD1C471MLIGS 470 10 1		330	8×10	0.16	52.8	0.16	600	UCD1C331MNL1GS
1(C)	16	330	10×7.7	0.16	52.8	0.18	600	UCD1C331MCL6GS
680		470	8×10	0.16	75.2	0.16	600	UCD1C471MNL1GS
1000		470	10×7.7	0.16	75.2	0.18	600	UCD1C471MCL6GS
1500		680	10×10	0.16	108.8	0.080	850	UCD1C681MNL1GS
10		1000	10×13.5	0.16	160	0.080	950	UCD1C102MNL1GS
15		1500	12.5×13.5	0.16	240	0.080	1100	UCD1C152MNQ1MS
22		10	4×5.8	0.14	3	1.35	90	UCD1E100MCL1GS
27		15	5×5.8	0.14	3.75	0.70	160	UCD1E150MCL1GS
33 5×5.8 0.14 8.25 0.70 160 UCD1E330MCL6GS		22	5×5.8	0.14	5.5	0.70	160	UCD1E220MCL1GS
33		27	6.3×5.8	0.14	6.75	0.36	240	UCD1E270MCL1GS
47		33	5×5.8	0.14	8.25	0.70	160	UCD1E330MCL6GS
Section Sect		33	6.3×5.8	0.14	8.25	0.36	240	UCD1E330MCL1GS
68		47	6.3×5.8	0.14	11.75	0.36	240	UCD1E470MCL1GS
100		56	6.3×5.8	0.14	14	0.36	240	UCD1E560MCL1GS
(TE) 100		68	6.3×5.8	0.14	17	0.36	240	UCD1E680MCL1GS
150		100	6.3×7.7	0.14	25	0.32	290	UCD1E101MCL1GS
150	(1E)	100	8×6.2	0.14	25	0.26	300	UCD1E101MCL6GS
220		150	8×10	0.14	37.5	0.16	600	UCD1E151MNL1GS
220		150	10×7.7	0.14	37.5	0.18	600	UCD1E151MCL6GS
330 8×10 0.14 82.5 0.16 600 UCD1E331MNL1GS		220	8×10	0.14	55	0.16	600	UCD1E221MNL1GS
470		220	10×7.7	0.14	55	0.18	600	UCD1E221MCL6GS
680								
1000				0.14				
2200								
A.7				_				
10								
10								
22								
33 6.3×5.8 0.12 11.55 0.36 240 UCD1V330MCL1GS 47 6.3×5.8 0.12 16.45 0.36 240 UCD1V470MCL1GS 68 6.3×7.7 0.12 23.8 0.32 290 UCD1V680MCL1GS 100 6.3×7.7 0.12 35 0.32 290 UCD1V101MCL6GS 1100 8×10 0.12 35 0.16 600 UCD1V101MNL1GS 1150 8×10 0.12 52.5 0.16 600 UCD1V151MNL1GS 1150 10×7.7 0.12 52.5 0.18 600 UCD1V151MNL1GS 220 8×10 0.12 77 0.16 600 UCD1V221MNL1GS 220 10×7.7 0.12 77 0.18 600 UCD1V221MNL1GS 330 10×10 0.12 115.5 0.080 850 UCD1V221MCL6GS 470 10×13.5 0.12 164.5 0.080 950 UCD1V471MNL6GS 470 12.5×13.5 0.12 164.5 0.080 950 UCD1V471MNL6GS 470 12.5×13.5 0.12 164.5 0.080 1100 UCD1V471MNL1MS 680 12.5×13.5 0.12 238 0.080 1100 UCD1V471MNQ1MS 1000 16×16.5 0.12 350 0.035 1800 UCD1V102MNQ1MS 1 4×5.8 0.10 3 2.70 60 UCD1H2R2MCL1GS	-							
A7								
100								
100	-							
100	-				<u> </u>			
150								
150								
220 8×10 0.12 77 0.16 600 UCD1V221MNL1GS	(14)							
220								
330	_							
470								
470								
680 12.5×13.5 0.12 238 0.080 1100 UCD1V681MNQ1MS 1000 16×16.5 0.12 350 0.035 1800 UCD1V102MNQ1MS 1 4×5.8 0.10 3 2.70 60 UCD1H010MCL1GS 2.2 4×5.8 0.10 3 2.70 60 UCD1H2R2MCL1GS								
1000 16×16.5 0.12 350 0.035 1800 UCD1V102MNQ1MS 1 4×5.8 0.10 3 2.70 60 UCD1H010MCL1GS 50 2.2 4×5.8 0.10 3 2.70 60 UCD1H2R2MCL1GS								
50 (1H) 1 4×5.8 0.10 3 2.70 60 UCD1H010MCL1GS 2.2 4×5.8 0.10 3 2.70 60 UCD1H2R2MCL1GS								
50 (1H) 2.2 4×5.8 0.10 3 2.70 60 UCD1H2R2MCL1GS								
(IH)								
, , OO TANGO O.10 O C.10 OO OAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	(1H)	3.3	4×5.8	0.10	3	2.70	60	UCD1H3R3MCL1GS

UCD

■ Dimensions

Rated Voltage (V) (code)	Rated Capacitance (µF)	Case Size φD×L(mm)	tan δ	Leakage Current (µA) (at 20°C after 2 minutes)	Impedance(Ω) MAX. (20°C/100kHz)	Rated Ripple (mArms) (105°C/100kHz)	Part Number
	4.7	4×5.8	0.10	3	2.70	60	UCD1H4R7MCL1GS
	10	5×5.8	0.10	5	1.50	90	UCD1H100MCL6GS
	10	6.3×5.8	0.10	5	0.86	170	UCD1H100MCL1GS
	22	6.3×5.8	0.10	11	0.86	170	UCD1H220MCL1GS
	33	6.3×7.7	0.10	16.5	0.66	195	UCD1H330MCL1GS
	33	8×6.2	0.10	16.5	0.63	200	UCD1H330MCL6GS
	47	6.3×7.7	0.10	23.5	0.66	195	UCD1H470MCL1GS
	47	8×6.2	0.10	23.5	0.63	200	UCD1H470MCL6GS
50 (1H)	100	8×10	0.10	50	0.32	350	UCD1H101MNL1GS
(111)	100	10×7.7	0.10	50	0.36	330	UCD1H101MCL6GS
	150	10×10	0.10	75	0.16	700	UCD1H151MNL1GS
	220	10×10	0.10	110	0.16	700	UCD1H221MNL1GS
	330	10×13.5	0.10	165	0.14	800	UCD1H331MNL6GS
	330	12.5×13.5	0.10	165	0.12	900	UCD1H331MNQ1MS
	390	12.5×13.5	0.10	195	0.12	900	UCD1H391MNQ1MS
	470	16×16.5	0.10	235	0.073	1610	UCD1H471MNQ1MS
	680	16×16.5	0.10	340	0.073	1610	UCD1H681MNQ1MS
	4.7	5×5.8	0.08	3	3.00	50	UCD1J4R7MCL1GS
	10	6.3×5.8	0.08	6.3	1.50	80	UCD1J100MCL1GS
	22	6.3×7.7	0.08	13.86	1.20	120	UCD1J220MCL1GS
	22	8×6.2	0.08	13.86	1.20	120	UCD1J220MCL6GS
	33	8×10	0.08	20.79	0.65	250	UCD1J330MNL1GS
63	47	8×10	0.08	29.61	0.65	250	UCD1J470MNL1GS
(1J)	68	10×10	0.08	42.84	0.35	400	UCD1J680MNL1GS
	100	10×10	0.08	63	0.35	400	UCD1J101MNL1GS
	150	12.5×13.5	0.08	94.5	0.16	800	UCD1J151MNQ1MS
	220	12.5×13.5	0.08	138.6	0.16	800	UCD1J221MNQ1MS
	470	16×16.5	0.08	296.1	0.082	1410	UCD1J471MNQ1MS
	680	18×16.5	0.08	428.4	0.080	1690	UCD1J681MNQ1MS
	3.3	5×5.8	0.08	3	5.00	25	UCD1K3R3MCL1GS
	4.7	6.3×5.8	0.08	3.76	3.00	40	UCD1K4R7MCL1GS
	10	6.3×7.7	0.08	8	2.40	60	UCD1K100MCL1GS
	10	8×6.2	0.08	8	2.40	60	UCD1K100MCL6GS
	22	8×10	0.08	17.6	1.30	130	UCD1K220MNL1GS
80	33	8×10	0.08	26.4	1.30	130	UCD1K330MNL1GS
(1K)	47	10×10	0.08	37.6	0.70	200	UCD1K470MNL1GS
	68	12.5×13.5	0.08	54.4	0.32	500	UCD1K680MNQ1MS
	100	12.5×13.5	0.08	80	0.32	500	UCD1K101MNQ1MS
	150	12.5×13.5	0.08	120	0.32	500	UCD1K151MNQ1MS
	330	16×16.5	0.08	264	0.17	793	UCD1K331MNQ1MS
	470	18×16.5	0.08	376	0.15	917	UCD1K471MNQ1MS
	22	8×10	0.07	22	1.30	130	UCD2A220MNL1GS
	33	10×10	0.07	33	0.70	200	UCD2A330MNL1GS
	47	12.5×13.5	0.07	47	0.32	500	UCD2A470MNQ1MS
100	68	12.5×13.5	0.07	68	0.32	500	UCD2A680MNQ1MS
(2A)	100	16×16.5	0.07	100	0.17	793	UCD2A101MNQ1MS
	150	16×16.5	0.07	150	0.17	793	UCD2A151MNQ1MS
	220	18×16.5	0.07	220	0.15	917	UCD2A221MNQ1MS
	330	18×16.5	0.07	330	0.15	917	UCD2A331MNQ1MS

[•] Taping specifications are given in page 20.

[•] Recommended land size, soldering by refrow are given in page 16, 17.

[•] Please refer to page 3 for the minimum order quantity.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Nichicon:

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UCD0J101MCL6GS UCD0J331MCLGS UCD0J331MCL6GS UCD0J470MCL6GS UCD1A221MCL6GS
UCD1A330MCL6GS UCD1C220MCL6GS UCD1C221MCL6GS UCD1C470MCL6GS UCD1E101MCL6GS
UCD1E330MCL6GS UCD1H100MCL6GS UCD1H330MCL6GS UCD1H470MCL6GS UCD1J220MCL6GS
UCD1K100MCL6GS UCD1V100MCL6GS UCD1V101MCL6GS UCD0J101MCL1GS UCD0J102MNL1GS
UCD0J152MNL1GS UCD0J220MCL1GS UCD0J221MCL1GS UCD0J331MCL1GS UCD0J470MCL1GS
UCD0J471MNL1GS 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
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