ALUMINUM ELECTROLYTIC CAPACITORS

nichicon





- Chip type with load life of 7000 hours at +105°C. Low impedance temperature range up to +105°C.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU).

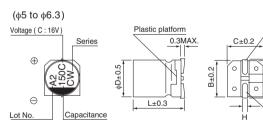


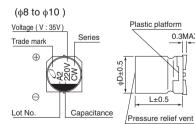


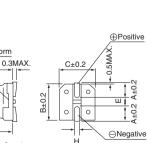
Specifications

Item	Performance Characteristics										
Category Temperature Range	-25 to +105°C										
Rated Voltage Range	6.3 to 50V										
Rated Capacitance Range	10 to 470µF	10 to 470μF									
Capacitance Tolerance	±20% at 120Hz, 20°	±20% at 120Hz, 20°C									
Leakage Current	After 2 minutes' appl	After 2 minutes' application of rated voltage, leakage current is not more than 0.01 CV or 3 (µA), whichever is greater.									
					Measuremen	nt freq	uency : 120	Hz at 20°C			
Tangent of loss angle (tan δ)	Rated voltage (V)	6.3	10	16	25		35	50			
	tan δ (MAX.)	0.32	0.28	0.26	0.16		0.14	0.14			
	Measurement frequency : 120Hz										
	Rated voltage (V)			10	16	25	35 50				
Stability at Low Temperature	Impedance ratio ZT / Z20 (MAX.)	–25°C / Z+20	°C 4	3	2	2	2	0Hz at 20°C 50 0.14 ncy : 120Hz 50 2 0% of the init less than the or equal to the rming voltage teristics listed nce change			
	The specifications listed at right shall be met Capacitance change Within +30% of the initial capacitance value										
	when the capacitors			· ·	citance chang	ge	Within ±30% of the initial capacitance value				
Endurance	after the rated voltag			tan δ							
	hours at 105°C.			Leaka	ige current		Less than c	or equal to th	e Initial specified value		
Shelf Life	After storing the capa clause 4.1 at 20°C, the store of t								e treatment based on JIS C 5101-4 d above.		
	The capacitors are keep				which is	Г	Capacitan	ce change	Within ±10% of the initial capacitance value		
Resistance to soldering	maintained at 250°C					F	tan δ		Less than or equal to the initial specified value		
heat	characteristic require removed from the pla			n they are	9		Leakage o	current	Less than or equal to the initial specified value		
Marking	Black print on the cas										

Chip Type







⊕Positive

A±0.

2

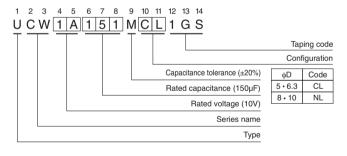
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⊖Negative

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D.5MAX

Type numbering system (Example : 10V 150µF)



					(mm)
φD × L	5 × 7	6.3 × 7	6.3 × 8.7	8 × 10	10 × 10
Α	2.1	2.4	2.4	2.9	3.2
В	5.3	6.6	6.6	8.3	10.3
С	5.3	6.6	6.6	8.3	10.3
E	1.3	2.2	2.2	3.1	4.5
L	7.0	7.0	8.7	10	10
Н	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

Voltage

voitage						
V	6.3	10	16	25	35	50
Code	j	А	С	Е	V	Н

CAT.8100D



Dimensions

	V	(6.3			10			16		:	25		;	35			50	
Cap. (µF)	Code		0J			1A			1C			1E			١V			1H	
10	100		1				 							5×7	2.2	95			
22	220		1				1	5×7	2.2	95	5×7	2.2	95	5×7	2.2	95			
33	330				5×7	2.2	95				6.3×7	1.1	140	6.3×8.7	1.0	230			
47	470	5×7	2.2	95			 	6.3×7	1.1	140	6.3×7	1.1	140	6.3×8.7	1.0	230	8×10	0.53	350
100	101	6.3×7	1.1	140			1	6.3×7	1.1	140	6.3×8.7	1.0	230				8 × 10	0.53	350
150	151		1		6.3×7	1.1	140	6.3×8.7	1.0	230									
220	221	6.3×8.7	1.0	230				6.3×8.7	1.0	230	8×10	0.22	600	8×10	0.22	600	10 × 10	0.35	670
330	331	6.3×8.7	1.0	230			 	8×10	0.22	600	8×10	0.22	600	10×10	0.16	850	Case size	Impedance	Rated
470	471	8×10	0.22	600				8×10	0.22	600	10 × 10	0.16	850				$\phi D \times L (mm)$	I impedancei	ripple

Max. impedance (Ω) at 20°C 100kHz,

Rated ripple current (mArms) at 105°C 100kHz

• Frequency coefficient of rated ripple current

1 7					
Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz 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.

L

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

Mouser Electronics

Authorized Distributor

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Nichicon:

UCW1V100MCL1GS UCW1E221MNL1GS UCW1E330MCL1GS UCW1E331MNL1GS UCW1E470MCL1GS UCW1E471MNL1GS UCW1H101MNL1GS UCW1H470MNL1GS UCW1C471MNL1GS UCW1V220MCL1GS UCW1V221MNL1GS UCW1V330MCL1GS UCW1V331MNL1GS UCW1H221MNL1GS UCW1A330MCL1GS UCW0J101MCL1GS UCW0J221MCL1GS UCW0J331MCL1GS UCW0J470MNL1GS UCW1E220MCL1GS UCW1A151MCL1GS UCW1E101MCL1GS UCW1C101MCL1GS UCW1C151MCL1GS UCW1C220MCL1GS UCW1C221MCL1GS UCW1C331MNL1GS UCW1C470MCL1GS UCW0J470MNL1GS UCW0J471MNL1GS UCW0J471MCL1GS