

ALUMINUM ELECTROLYTIC CAPACITORS

CW Chip Type, Low Impedance, Long Life Assurance series



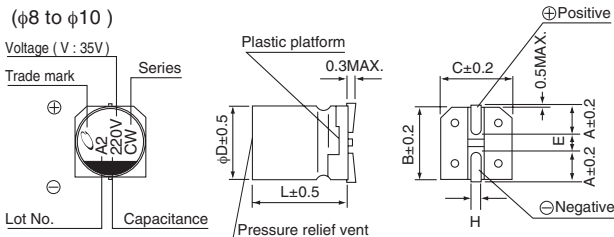
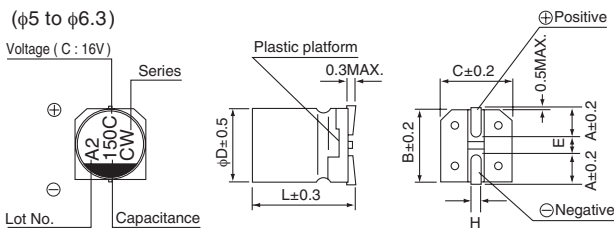
- Chip type with load life of 7000 hours at +105°C. Low impedance temperature range up to +105°C.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU).



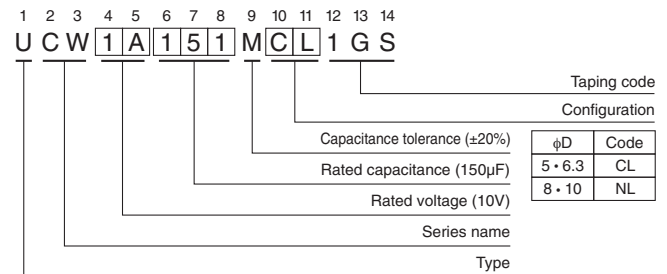
Specifications

Item	Performance Characteristics							
Category Temperature Range	-25 to +105°C							
Rated Voltage Range	6.3 to 50V							
Rated Capacitance Range	10 to 470µF							
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	
Stability at Low Temperature	Measurement frequency : 120Hz							
	Impedance ratio ZT / Z20 (MAX.)	Z-25°C / Z+20°C	4	3	2	2	2	
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 7000 hours at 105°C.		Capacitance change					Within ±30% of the initial capacitance value
			tan δ					300% or less than the initial specified value
			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



Type numbering system (Example : 10V 150µF)



Voltage

V	6.3	10	16	25	35	50
Code	j	A	C	E	V	H

(mm)

φD × L	5 × 7	6.3 × 7	6.3 × 8.7	8 × 10	10 × 10
A	2.1	2.4	2.4	2.9	3.2
B	5.3	6.6	6.6	8.3	10.3
C	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
H	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

• Dimension table in next page.



■ Dimensions

Cap. (μ F)	V Code	6.3			10			16			25			35			50		
		0J			1A			1C			1E			1V			1H		
10	100													5 × 7	2.2	95			
22	220							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				6.3 × 7	1.1	140	6.3 × 8.7	1.0	230				8 × 10	0.53	350
150	151				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 ϕ D × L (mm)	Impedance	Rated ripple
470	471	8 × 10	0.22	600				8 × 10	0.22	600	10 × 10	0.16	850						

Max. impedance (Ω) at 20°C 100kHz,
Rated ripple current (mA rms) at 105°C 100kHz

● Frequency coefficient of rated ripple current

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

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