

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 using carrier tape.
- Adapted to the RoHS directive (2002/95/EC).

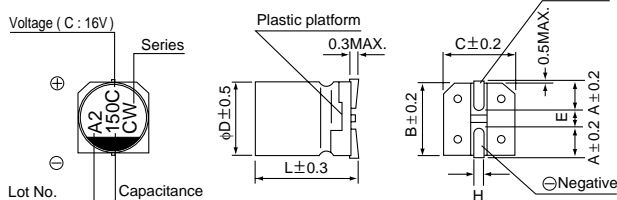


Specifications

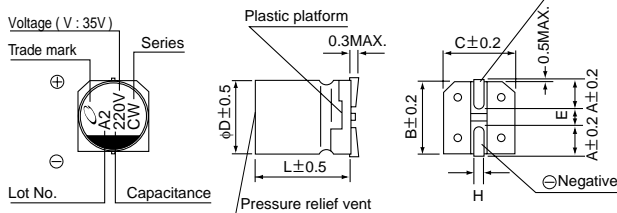
Item	Performance Characteristics						
Category Temperature Range	-25 ~ +105°C						
Rated Voltage Range	6.3 ~ 50V						
Rated Capacitance Range	10 ~ 470μF						
Capacitance Tolerance	±20% at 120Hz, 20°C						
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.01 CV or 3 (μA) , whichever is greater.						
tan δ	Measurement frequency : 120Hz, Temperature : 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	After 7000 hours' application of rated voltage at 105°C , capacitors meet the characteristic requirements listed at right.		Capacitance change		Within ±30% of initial value		
			tan δ		300% or less of initial specified value		
			Leakage current		Initial specified value or less		
Shelf Life	After storing the capacitors under no load at 105°C for 1000 hours, and after performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they will meet the specified value for endurance characteristics listed above.						
Resistance to soldering heat	The capacitors shall be kept on the hot plate maintained at 250°C for 30 seconds. After removing from the hot plate and restored at room temperature, they meet the characteristic requirements listed at right.		Capacitance change		Within ±10% of initial value		
			tan δ		Initial specified value or less		
			Leakage current		Initial specified value or less		
Marking	Black print on the case top.						

Chip Type

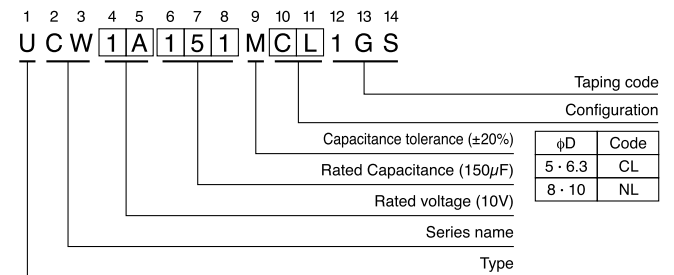
(φ5 ~ 6.3)



(φ8 ~ 10)



Type numbering system (Example : 10V 150μF)



Voltage

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

φD × L	(mm)				
A	5 × 7	6.3 × 7	6.3 × 8.7	8 × 10	10 × 10
B	2.1	2.4	2.4	2.9	3.2
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 ~ 0.8	0.5 ~ 0.8	0.5 ~ 0.8	0.8 ~ 1.1	0.8 ~ 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 (mA) at 105°C 100kHz

● Frequency coefficient of rated ripple current

Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz~
Coefficient	0.35	0.50	0.64	0.83	1.00

- Taping specifications are given in page 24.
- Recommended land size, soldering by reflow are given in page 25, 26.
- Please refer to page 3 for the minimum order quantity.