ALUMINUM ELECTROLYTIC CAPACITORS

UCV

Chip Type, Low Impedance.

For SMD | Low Impedance | Anti-Solvent Feature

Expanded

- Chip type, 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).

UCM
Smaller
Higher capacitance
UCV

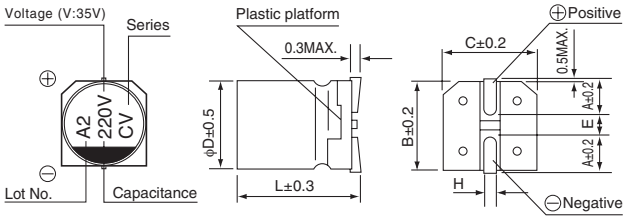


■Specifications

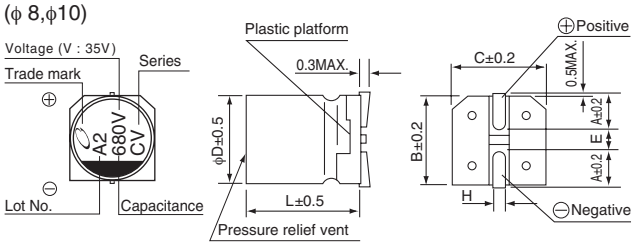
Item	Performance Characteristics
Category Temperature Range	−55 to +105°C
Rated Voltage Range	16 to 35V
Rated Capacitance Range	220 to 1500μF
Capacitance Tolerance	±20% at 120Hz, 20°C
Leakage Current	After 2 minutes' application of rated voltage at 20°C, leakage current is not more than 0.01CV (μA).
Tangent of loss angle (tan δ)	Rated voltage (V): 16 / 25 / 35; tan δ (MAX.): 0.16 / 0.14 / 0.12. Measurement frequency : 120Hz at 20°C
Stability at Low Temperature	Rated voltage (V): 16 / 25 / 35. Impedance ratio ZT / Z20 (MAX.): Z–25°C / Z+20°C: 2 / 2 / 2; Z–40°C / Z+20°C: 3 / 3 / 3; Z–55°C / Z+20°C: 4 / 3 / 3. Measurement frequency : 120Hz
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 2000 hours at 105°C. Capacitance change: Within ±30% of the initial capacitance value; tan δ: 200% 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

(φ 6.3)



(φ 8,φ10)



Type numbering system (Example : 35V 220μF)

1	2	3	4	5	6	7	8	9	10	11	12	13	14
U	C	V	1	V	2	2	1	M	C	L	1	G	S

- 1–3: Type
- 4–5: Series name
- 6–8: Rated voltage (35V)
- 9–11: Rated capacitance (220μF)
- 10–11: Capacitance tolerance (±20%)
- 12: Configuration
- 13–14: Size code
- Taping code

φD	Code
6.3	CL
8・10	NL

Voltage

V	16	25	35
Code	C	E	V

Standard (mm)

φDxL	6.3×7.7	8×10	10×10
A	2.4	2.9	3.2
B	6.6	8.3	10.3
C	6.6	8.3	10.3
E	2.2	3.1	4.5
L	7.7	10	10
H	0.5 to 0.8	0.8 to 1.1	0.8 to 1.1

Design, Specifications are subject to change without notice.

NICHICON CORPORATION

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UCV

■Dimensions

V / Cap. (μF)	Code	16			25			35		
		1C			1E			1V		
220	221							6.3 × 7.7	0.16	600
330	331				6.3 × 7.7	0.16	600			
470	471	6.3 × 7.7	0.16	600				8 × 10	0.08	850
560	561				8 × 10	0.08	850			
680	681							10 × 10	0.06	1190
820	821	8 × 10	0.08	850						
1000	102				10 × 10	0.06	1190	Case size φD × L (mm)	Impedance	Rated ripple
1500	152	10 × 10	0.06	1190						

MAX. Impedance (Ω) at 20°C 100kHz, Rated ripple current(mArms) at 105°C 100kHz

● 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

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