

ALUMINUM ELECTROLYTIC CAPACITORS

UCV

Chip Type, Low Impedance.



For SMD



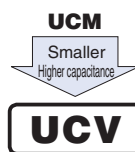
Low Impedance



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).

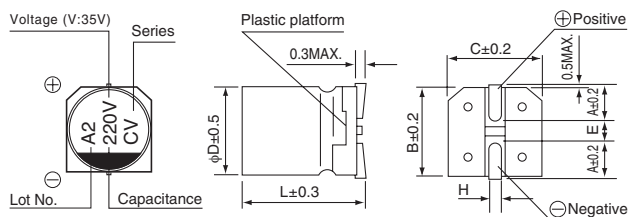


Specifications

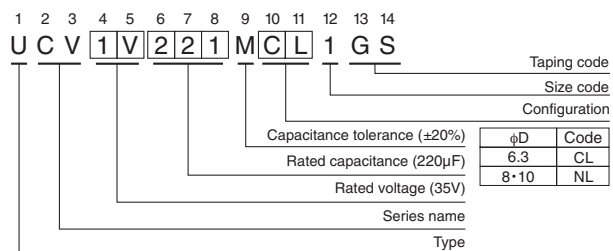
Item	Performance Characteristics					
Category Temperature Range	-55 to +105°C					
Rated Voltage Range	16 to 35V					
Rated Capacitance Range	220 to 1500μF					
Capacitance Tolerance	±20% at 120Hz, 20°C					
Leakage Current	After 2 minutes' application of rated voltage at 20°C, leakage current is not more than 0.01CV (μA).					
Tangent of loss angle (tan δ)	Rated voltage (V)	16	25	35	Measurement frequency : 120Hz at 20°C	
	tan δ (MAX.)	0.16	0.14	0.12		
Stability at Low Temperature	Rated voltage (V)		16	25	35	Measurement frequency : 120Hz
	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	
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

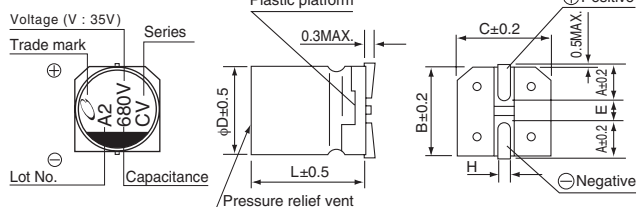
(φ 6.3)



Type numbering system (Example : 35V 220μF)



(φ 8, φ10)



Voltage	16	25	35
Code	C	E	V

Standard	(mm)		
φD×L	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

ALUMINUM ELECTROLYTIC CAPACITORS

UCV

■ Dimensions

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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April 2018