

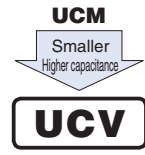
# ALUMINUM ELECTROLYTIC CAPACITORS

**UCV** Chip Type, Low Impedance.



**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).

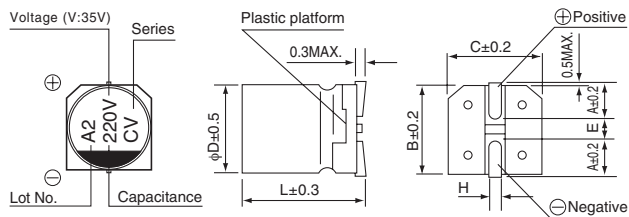


## Specifications

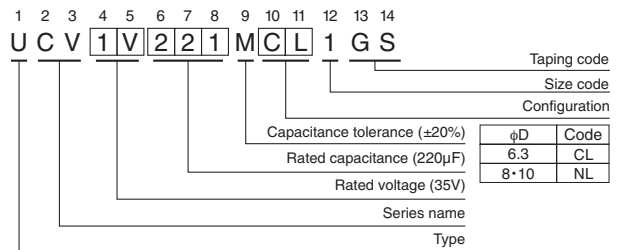
Item	Performance Characteristics	
Category Temperature Range	-55 to +105°C	
Rated Voltage Range	16 to 35V	
Rated Capacitance Range	220 to 1500μF	
Capacitance Tolerance	±20% at 120Hz, 20°C	
Leakage Current	After 2 minutes' application of rated voltage at 20°C, leakage current is not more than 0.01CV (μA).	
Tangent of loss angle (tan δ)	Rated voltage (V)	16    25    35
	tan δ (MAX.)	0.16    0.14    0.12
Stability at Low Temperature	Measurement frequency : 120Hz at 20°C	
	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
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
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.	
	Capacitance change	Within ±10% of the initial capacitance value
	tan δ	Less than or equal to the initial specified value
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
	Leakage current	Less than or equal to the initial specified value
Marking	Black print on the case top.	

## Chip Type

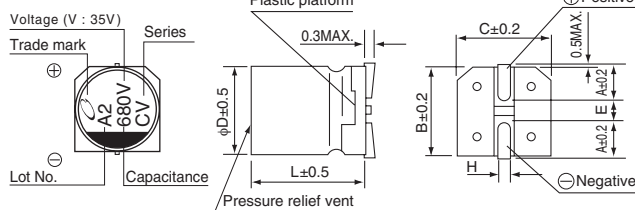
(φ 6.3)



## Type numbering system (Example : 35V 220μF)



(φ 8, φ10)



Voltage	16	25	35
Code	C	E	V

Standard	(mm)		
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.

# ALUMINUM ELECTROLYTIC CAPACITORS



## ■ Dimensions

		16			25			35		
Cap. (μF)	Code	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			
1500	152	10 × 10	0.06	1190				Case size φD × L (mm)	Impedance	Rated ripple

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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