

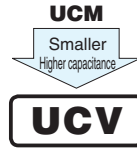
ALUMINUM ELECTROLYTIC CAPACITORS

UCV

Chip Type, Low Impedance.



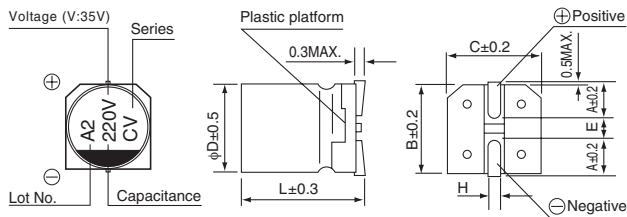
- Chip type, low impedance temperature range up to +105°C.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU, (EU)2015/863).
- AEC-Q200 compliant. Please contact us for details.



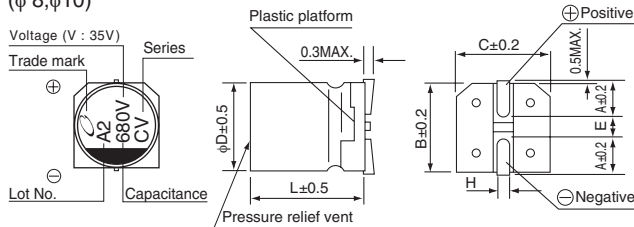
Specifications

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	Z-25°C / Z+20°C	2	2		2					
	ZT / Z20 (MAX.)	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.				<table border="1"> <tr> <td>Capacitance change</td> <td>Within ±30% of the initial capacitance value</td> </tr> <tr> <td>tan δ</td> <td>200% or less than the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>Less than or equal to the initial specified value</td> </tr> </table>	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
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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.				<table border="1"> <tr> <td>Capacitance change</td> <td>Within ±10% of the initial capacitance value</td> </tr> <tr> <td>tan δ</td> <td>Less than or equal to the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>Less than or equal to the initial specified value</td> </tr> </table>	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
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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.										

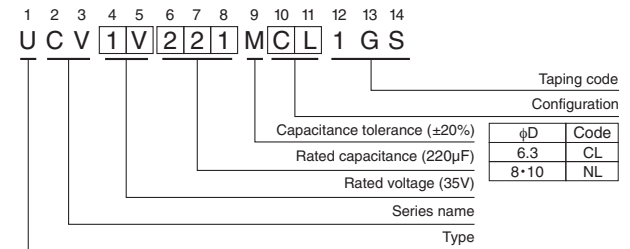
Chip Type (φ 6.3)



(φ 8, φ10)



Type numbering system (Example : 35V 220μF)



Voltage	16	25	35
Code	C	E	V

Standard	(mm)		
	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

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

● Dimension table in next page.

UCV

■ Dimensions

Rated Voltage (V) (code)	Rated Capacitance (μ F)	Case Size ϕ D \times L (mm)	$\tan \delta$	Leakage Current (μ A) (at 20°C after 2 minutes)	Impedance (Ω) MAX. (20°C/100kHz)	Rated Ripple (mArms) (105°C/100kHz)	Part Number
16 (1C)	470	6.3 \times 7.7	0.16	75.2	0.16	600	UCV1C471MCL1GS
	820	8 \times 10	0.16	131.2	0.08	850	UCV1C821MNL1GS
	1500	10 \times 10	0.16	240	0.06	1190	UCV1C152MNL1GS
25 (1E)	330	6.3 \times 7.7	0.14	82.5	0.16	600	UCV1E331MCL1GS
	560	8 \times 10	0.14	140	0.08	850	UCV1E561MNL1GS
	1000	10 \times 10	0.14	250	0.06	1190	UCV1E102MNL1GS
35 (1V)	220	6.3 \times 7.7	0.12	77	0.16	600	UCV1V221MCL1GS
	470	8 \times 10	0.12	164.5	0.08	850	UCV1V471MNL1GS
	680	10 \times 10	0.12	238	0.06	1190	UCV1V681MNL1GS

- Taping specifications are given in page 20.
- Recommended land size, soldering by reflow are given in page 16, 17.
- Please refer to page 3 for the minimum order quantity.

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