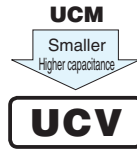


## UCV Chip Type, Low Impedance.



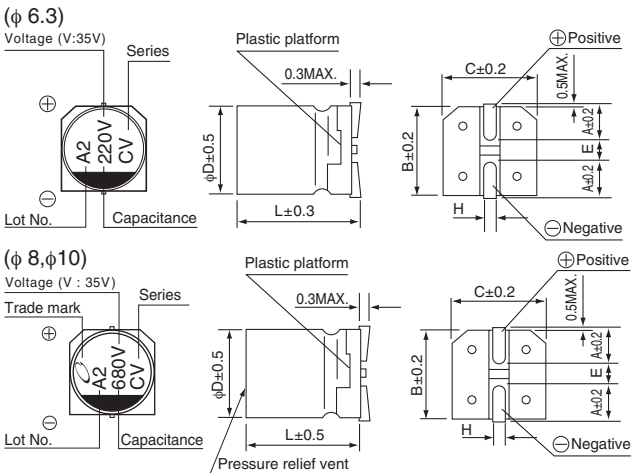
- Chip type, low impedance temperature range up to +105°C.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU).



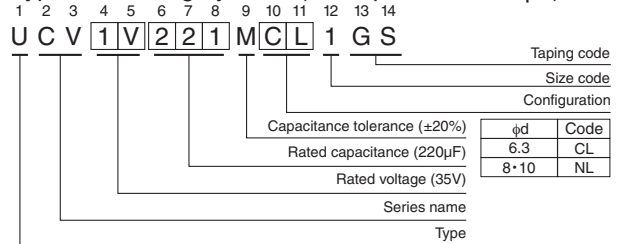
### Specifications

Item	Performance Characteristics															
Category Temperature Range	-55 to +105°C															
Rated Voltage Range	25 to 35V															
Rated Capacitance Range	220 to 1000μF															
Capacitance Tolerance	±20% at 120Hz, 20°C															
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.01CV.															
Tangent of loss angle (tan δ)	<table border="1"> <tr> <th>Rated voltage (V)</th> <th>25</th> <th>35</th> </tr> <tr> <td>tan δ (MAX.)</td> <td>0.14</td> <td>0.12</td> </tr> </table>	Rated voltage (V)	25	35	tan δ (MAX.)	0.14	0.12	Measurement frequency : 120Hz at 20°C								
Rated voltage (V)	25	35														
tan δ (MAX.)	0.14	0.12														
Stability at Low Temperature	<table border="1"> <tr> <th colspan="2">Rated voltage (V)</th> <th>25</th> <th>35</th> </tr> <tr> <td rowspan="3">Impedance ratio ZT / Z20 (MAX.)</td> <td>Z-25°C / Z+20°C</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z-40°C / Z+20°C</td> <td>3</td> <td>3</td> </tr> <tr> <td>Z-55°C / Z+20°C</td> <td>3</td> <td>3</td> </tr> </table>	Rated voltage (V)		25	35	Impedance ratio ZT / Z20 (MAX.)	Z-25°C / Z+20°C	2	2	Z-40°C / Z+20°C	3	3	Z-55°C / Z+20°C	3	3	Measurement frequency : 120Hz
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	Z-55°C / Z+20°C	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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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



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



Rated Voltage	Standard (mm)	
V	25	35
Code	E	V
A	2.4	2.9
B	6.6	8.3
C	6.6	8.3
E	2.2	3.1
L	7.7	10
H	0.5 to 0.8	0.8 to 1.1

### Dimensions

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

### ● 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

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