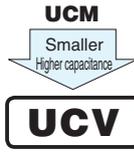


UCV Chip Type, Low Impedance.



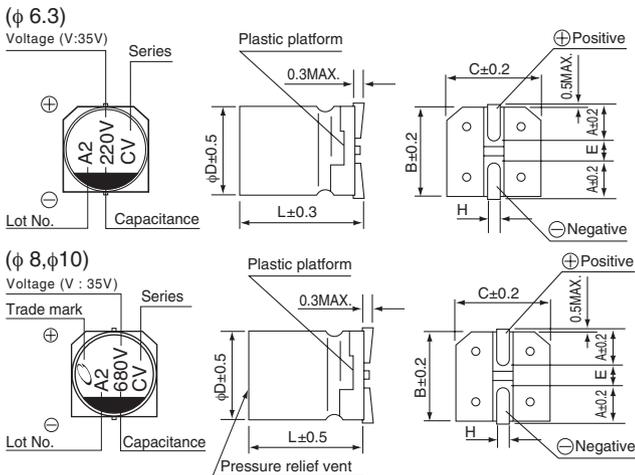
- Chip type, low impedance temperature range up to +105°C.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU).



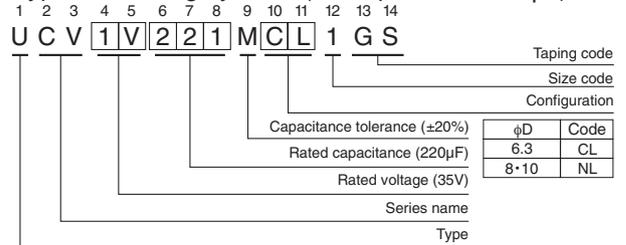
Specifications

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 at 20°C, leakage current is not more than 0.01CV (μA).													
Tangent of loss angle (tan δ)	<table border="1"> <tr> <td>Rated voltage (V)</td> <td>25</td> <td>35</td> </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> <td>Rated voltage (V)</td> <td>25</td> <td>35</td> </tr> <tr> <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	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
Rated voltage (V)	25	35												
Z-25°C / Z+20°C	2	2												
Z-40°C / Z+20°C	3	3												
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						
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.	<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						
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



Type numbering system (Example : 35V 220μF)



Voltage	25	35
V	E	V

Standard	(mm)		
φDxL	6.3x7.7	8x10	10x10
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

Dimensions

Cap. (μF)	Code	25		35	
		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				
1000	102	10 □ 10	0.06 1190	Case size 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