

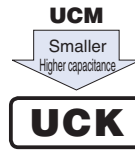
# ALUMINUM ELECTROLYTIC CAPACITORS

## UCK Chip Type, Low Impedance.



**NEW**

- 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 Qualified. Please contact us for details.

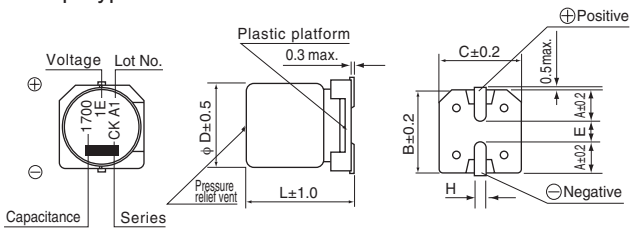


### Specifications

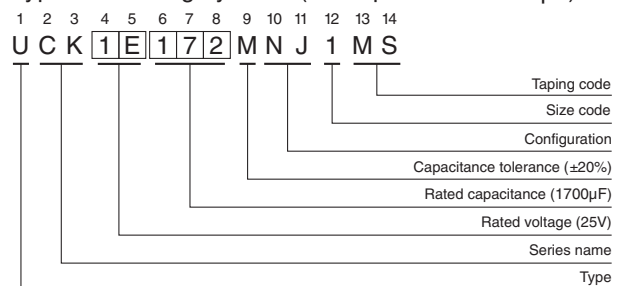
Item	Performance Characteristics															
Category Temperature Range	-55 to +105°C															
Rated Voltage Range	25 to 35V															
Rated Capacitance Range	1100 to 5900μF															
Capacitance Tolerance	±20% at 120Hz, 20°C															
Leakage Current ※	After 2 minutes' application of rated voltage at 20°C, leakage current is not more than 0.01 CV or 3 (μA), whichever is greater.															
Tangent of loss angle (tan δ)	<table border="1"> <tr> <td>Rated voltage (V)</td> <td>25</td> <td>35</td> <td rowspan="2">Measurement frequency : 120Hz at 20°C</td> </tr> <tr> <td>tan δ (max.)</td> <td>0.14</td> <td>0.12</td> </tr> </table> <p>For capacitance of more than 1000μF, add 0.02 for every increase of 1000μF.</p>	Rated voltage (V)	25	35	Measurement frequency : 120Hz at 20°C	tan δ (max.)	0.14	0.12								
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Stability at Low Temperature	<table border="1"> <tr> <td rowspan="3">Impedance ratio ZT / Z20 (max.)</td> <td>Rated voltage (V)</td> <td>25</td> <td>35</td> <td rowspan="3">Measurement frequency : 120Hz</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> <td></td> </tr> </table>	Impedance ratio ZT / Z20 (max.)	Rated voltage (V)	25	35	Measurement frequency : 120Hz	Z(-25°C) / Z(+20°C)	2	2	Z(-40°C) / Z(+20°C)	3	3	Z(-55°C) / Z(+20°C)	3	3	
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	Z(-40°C) / Z(+20°C)	3	3													
Z(-55°C) / Z(+20°C)	3	3														
Endurance	<p>The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 5000 hours at 105°C.</p> <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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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	<p>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.</p> <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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Leakage current	Less than or equal to the initial specified value															
Marking	Black print on the case top.															

※ I : Leakage Current (μA), C : Rated Capacitance (μF), V : Rated Voltage (V)

### Chip Type



### Type numbering system (Example : 25V 1700μF)



	(mm)					
φDxL	12.5×13.5	12.5×21	16×16.5	16×21.5	18×16.5	18×21.5
A	5.15	5.15	5.65	5.65	6.65	6.65
B	13.6	13.6	17.1	17.1	19.1	19.1
C	13.6	13.6	17.1	17.1	19.1	19.1
E	(3.3)	(3.3)	(5.8)	(5.8)	(5.8)	(5.8)
L	13.5	21	16.5	21.5	16.5	21.5
H	1.0 to 1.4	1.0 to 1.4	1.0 to 1.4	1.0 to 1.4	1.0 to 1.4	1.0 to 1.4

### 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.

Design, specifications are subject to change without notice.

## ALUMINUM ELECTROLYTIC CAPACITORS

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## ■Dimensions

Rated Voltage (V) (code)	Rated Capacitance (μF)	Case Size φD×L (mm)	tan δ	Leakage Current (μA) (at 20°C after 2 minutes)	Impedance (Ω) max. (20°C/100kHz)	Rated Ripple (mArms) (105°C/100kHz)	Part Number
25 (1E)	1700	12.5×13.5	0.14	425	0.060	1420	UCK1E172MNJ1MS
	2600	12.5×21	0.16	650	0.046	2080	UCK1E262MNJ1MS
	2900	16×16.5	0.16	725	0.047	1910	UCK1E292MNJ1MS
	3800	18×16.5	0.18	950	0.045	2060	UCK1E382MNJ1MS
	4500	16×21.5	0.20	1125	0.034	2540	UCK1E452MNJ1MS
	5900	18×21.5	0.22	1475	0.032	2640	UCK1E592MNJ1MS
35 (1V)	1100	12.5×13.5	0.12	385	0.060	1420	UCK1V112MNJ1MS
	1700	12.5×21	0.12	595	0.046	2080	UCK1V172MNJ1MS
	1900	16×16.5	0.12	665	0.047	1910	UCK1V192MNJ1MS
	2400	18×16.5	0.14	840	0.045	2060	UCK1V242MNJ1MS
	2900	16×21.5	0.14	1015	0.034	2540	UCK1V292MNJ1MS
	3800	18×21.5	0.16	1330	0.032	2640	UCK1V382MNJ1MS

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