

ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

UCK

Chip Type, Low Impedance.



For SMD



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.



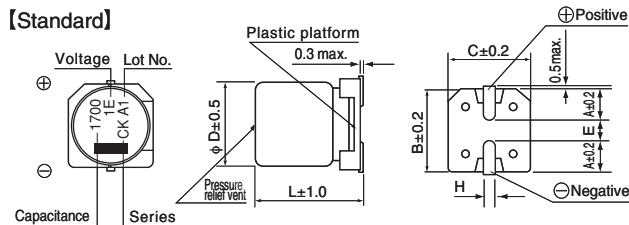
Specifications

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><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								
For capacitance of more than 1000μF, add 0.02 for every increase of 1000μF.											
Stability at Low Temperature	Rated voltage (V)		25	35	Measurement frequency : 120Hz						
	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							
Endurance	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.				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.				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.										

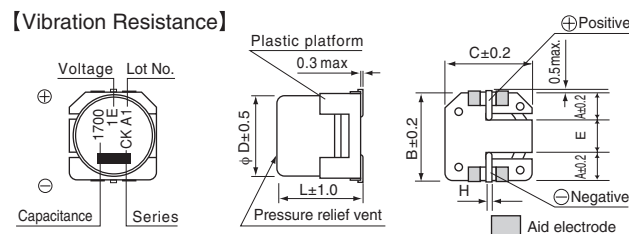
※ I : Leakage Current (μA), C : Rated Capacitance (μF), V : Rated Voltage (V)

Chip Type ※ φ12.5×21L : The vibration structure-resistant product can't support.

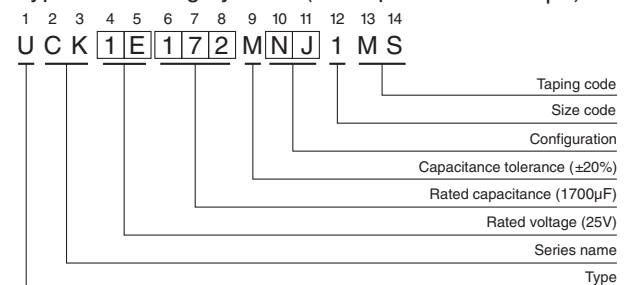
[Standard]



[Vibration Resistance]



Type numbering system (Example : 25V 1700μF)



Configuration	Code
Standard	NJ
Vibration Resistance	NS

Standard	(mm)						Vibration Resistance	(mm)		
φ12.5	12.5×13.5	12.5×21	16×16.5	16×21.5	18×16.5	18×21.5	φ12.5	12.5	16	18
A	5.15	5.15	5.65	5.65	6.65	6.65	A	4.8	5.4	6.4
B	13.6	13.6	17.1	17.1	19.1	19.1	B	13.6	17.1	19.1
C	13.6	13.6	17.1	17.1	19.1	19.1	C	13.6	17.1	19.1
E	(3.3)	(3.3)	(5.8)	(5.8)	(5.8)	(5.8)	E	(4.0)	(6.3)	(6.3)
L	13.5	21	16.5	21.5	16.5	21.5	L	13.5	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	H	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.

CAT.8100N

UCK

■ 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 (mA _{rms}) (105°C/100kHz)	Part Number
25 (1E)	1700	12.5×13.5	0.14	425	0.060	1420	UCK1E172M□□1MS
	2600	12.5×21	0.16	650	0.046	2080	UCK1E262M□□1MS
	2900	16×16.5	0.16	725	0.047	1910	UCK1E292M□□1MS
	3800	18×16.5	0.18	950	0.045	2060	UCK1E382M□□1MS
	4500	16×21.5	0.20	1125	0.034	2540	UCK1E452M□□1MS
	5900	18×21.5	0.22	1475	0.032	2640	UCK1E592M□□1MS
35 (1V)	1100	12.5×13.5	0.12	385	0.060	1420	UCK1V112M□□1MS
	1700	12.5×21	0.12	595	0.046	2080	UCK1V172M□□1MS
	1900	16×16.5	0.12	665	0.047	1910	UCK1V192M□□1MS
	2400	18×16.5	0.14	840	0.045	2060	UCK1V242M□□1MS
	2900	16×21.5	0.14	1015	0.034	2540	UCK1V292M□□1MS
	3800	18×21.5	0.16	1330	0.032	2640	UCK1V382M□□1MS

□□ : Enter the appropriate configuration code.

- For taping specifications, recommended land size/soldering by reflow and minimum order quantity, please refer to the Guidelines for Aluminum Electrolytic Capacitors.

Mouser Electronics

Authorized Distributor

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