

ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

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.



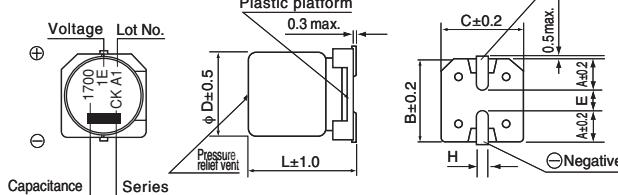
■ Specifications

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)	Rated voltage (V)	25	35	Measurement frequency : 120Hz at 20°C			
	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			
	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.						

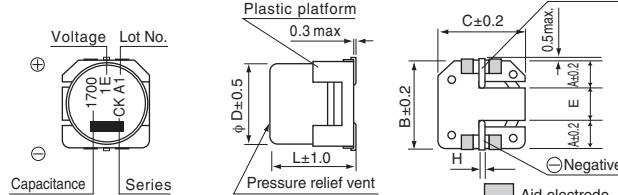
※ I : Leakage Current (μA), C : Rated Capacitance (μF), V : Rated Voltage (V)

■ Chip Type ≈ φ12.5x21L : The vibration structure-resistant product can't support.

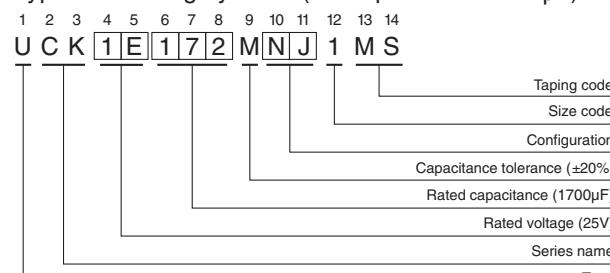
【Standard】



【Vibration Resistance】



Type numbering system (Example : 25V 1700μF)



Configuration	Code
Standard	NJ
Vibration Resistance	NS

Standard

	12.5X13.5	12.5X21	16X16.5	16X21.5	18X16.5	18X21.5	(mm)	Vibration Resistance (mm)			
A	5.15	5.15	5.65	5.65	6.65	6.65		A	12.5	16	18
B	13.6	13.6	17.1	17.1	19.1	19.1		B	4.8	5.4	6.4
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		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 (μ F)	Case Size ϕ D×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
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.