

ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

UCN

Chip Type, High Reliability.
Low ESR, Long Life Assurance.



For SMD

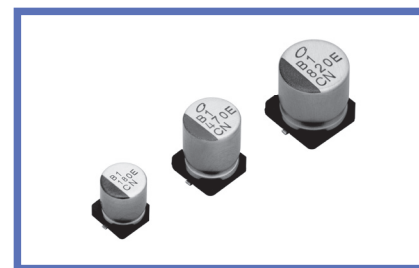


Long Life

NEW

- Chip type, low temperature ESR/Long life products.
- 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.

UCN ← Long Life **UCH**



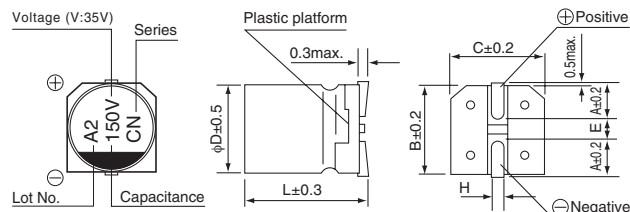
Specifications

Item	Performance Characteristics				
Category Temperature Range	-40 to +125°C				
Rated Voltage Range	25 to 35V				
Rated Capacitance Range	150 to 820μF				
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). After 5 minutes' application of 16V at 20°C, leakage current is not more than 0.001CV (μA).				
Tangent of loss angle (tan δ)	Rated voltage (V)	25	35	Measurement frequency : 120Hz at 20°C	
	tan δ (max.)	0.18	0.16		
Stability at Low Temperature	Rated voltage (V)		25	35	Measurement frequency : 120Hz
	Impedance ratio ZT / Z20 (max.)	Z(-40°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 3000 hours at 125°C.			Capacitance change	Within ±30% of the initial capacitance value
				tan δ	300% 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 125°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.				

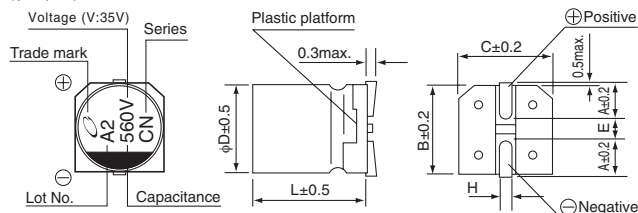
※ I : Leakage Current (μA), C : Rated Capacitance (μF), V : Rated Voltage (V)

Chip Type

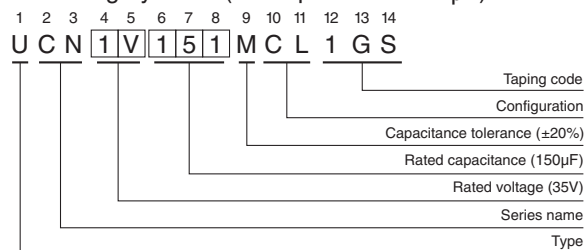
(φ6.3)



(φ8, φ10)



Type numbering system (Example : 35V 150μF)



Voltage			(mm)		
V	25	35	φ6.3	8×10	10×10
Code	E	V	A	B	C
			2.4	2.9	3.2
			6.6	8.3	10.3
			6.6	8.3	10.3
			2.2	3.1	4.5
			7.7	10	10
			0.5 to 0.8	0.8 to 1.1	0.8 to 1.1

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.81000

UCN

■ Dimensions

Rated Voltage (V) (code)	Rated Capacitance (μ F)	Case Size ϕ D \times L (mm)	tan δ	Leakage Current (μ A)		ESR (Ω) max.		Rated Ripple (mArms) (125°C/100kHz)	Part Number
				Rated voltage applied at 20°C after 2 minutes	16V applied at 20°C after 5 minutes	Initial 20°C 100kHz	Initial —40°C 100kHz		
25 (1E)	180	6.3 \times 7.7	0.18	45	4.5	0.5	7	197	UCN1E181MCL1GS
	470	8 \times 10	0.18	117.5	11.75	0.3	4	270	UCN1E471MCL1GS
	820	10 \times 10	0.18	205	20.5	0.2	3	500	UCN1E821MCL1GS
35 (1V)	150	6.3 \times 7.7	0.16	52.5	5.25	0.5	7	197	UCN1V151MCL1GS
	330	8 \times 10	0.16	115.5	11.55	0.3	4	270	UCN1V331MCL1GS
	560	10 \times 10	0.16	196	19.6	0.2	3	500	UCN1V561MCL1GS

- 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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