

ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

UCN

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



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.



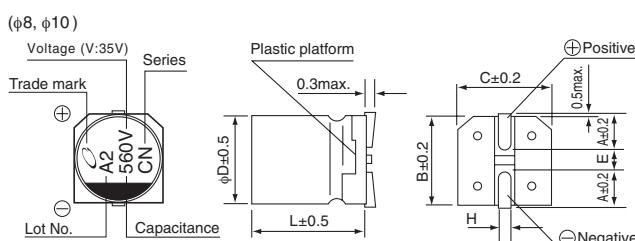
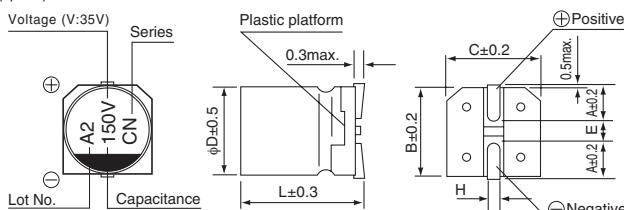
■ Specifications

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.			

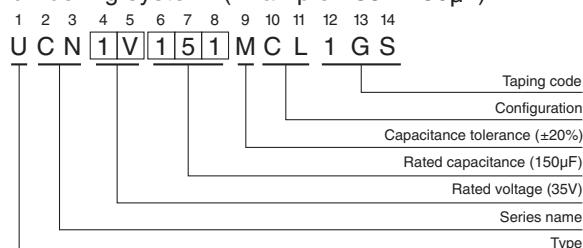
※ I : Leakage Current(μA), C : Rated Capacitance(μF), V : Rated Voltage(V)

■ Chip Type

(φ6.3)



Type numbering system (Example : 35V 150μF)



Voltage		(mm)				
V	25	35	6.3X7.7	8X10	10X10	
Code	E	V	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

- Frequency coefficient of rated ripple current

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×L(mm)	tan δ	Leakage Current(μA)		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	6.3×7.7	0.18	45	4.5	0.5	7	197	UCN1E181MCL1GS
	470	8×10	0.18	117.5	11.75	0.3	4	270	UCN1E471MCL1GS
	820	10×10	0.18	205	20.5	0.2	3	500	UCN1E821MCL1GS
35 (1V)	150	6.3×7.7	0.16	52.5	5.25	0.5	7	197	UCN1V151MCL1GS
	330	8×10	0.16	115.5	11.55	0.3	4	270	UCN1V331MCL1GS
	560	10×10	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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[UCN1E471MCL1GS](#)