

ALUMINUM ELECTROLYTIC CAPACITORS

UCH

Chip Type, High Reliability.
Low temperature ESR specification.



Expanded

- Added ESR specification after the test at -40°C.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU).

UCH ← Low ESR **UCZ**

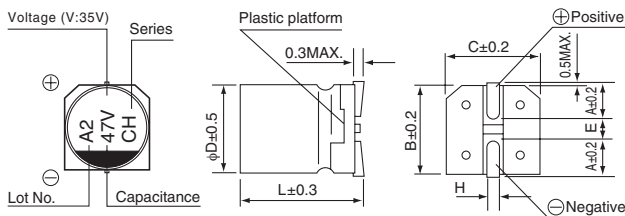


Specifications

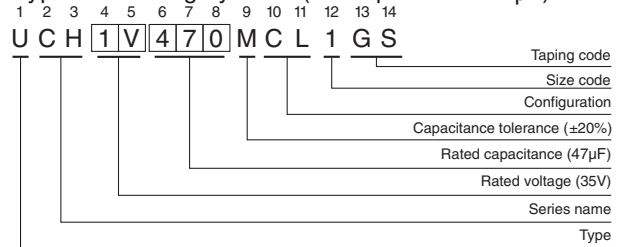
Item	Performance Characteristics	
Category Temperature Range	-40 to +125°C	
Rated Voltage Range	25 to 35V	
Rated Capacitance Range	47 to 560μF	
Capacitance Tolerance	±20% at 120Hz, 20°C	
Leakage Current	After 2 minutes' application of rated voltage at 20°C, leakage current is not more than 0.01CV (μA).	
Tangent of loss angle (tan δ)	Measurement frequency : 120Hz at 20°C	
	Rated voltage (V)	25 35
	tan δ (MAX.)	0.18 0.16
Stability at Low Temperature	Measurement frequency : 120Hz	
	Rated voltage (V)	25 35
	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 2000 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.	

Chip Type

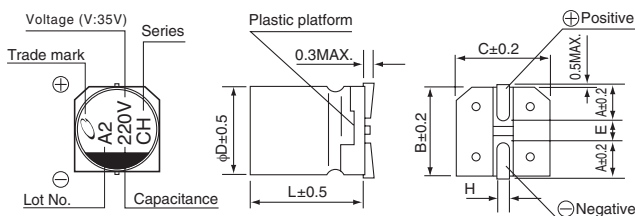
(φ 6.3)



Type numbering system (Example : 35V 47μF)



(φ8, φ10)



Voltage	25	35
V	25	35
Code	E	V

φDxL	(mm)		
	6.3×7.7	8×10	10×10
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 11

Design, Specifications are subject to change without notice.

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■ Dimensions

Cap. (μF)	Code	25					35				
		1E					1V				
47	470						6.3 × 7.7	0.30	3	6	197
100	101						6.3 × 7.7	0.30	3	6	197
150	151	6.3 × 7.7	0.30	3	6	197					
220	221						8 × 10	0.20	2	4.5	270
330	331	8 × 10	0.20	2	4.5	270	10 × 10	0.15	1.5	3.5	500
560	561	10 × 10	0.15	1.5	3.5	500					
		Case size φD × L (mm)		Initial 20°C 100kHz		Initial -40°C 100kHz		after endurance test 2000hours -40°C 400kHz		Rated ripple	
				ESR							

Max. ESR (Ω) at 20°C / -40°C 100k to 400kHz,
Rated ripple Current (mA rms) at 125°C 100kHz

● 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

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