

# ALUMINUM ELECTROLYTIC CAPACITORS

# UCH

Chip Type, High Reliability.  
Low temperature ESR specification.



- 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, (EU)2015/863).
- AEC-Q200 compliant. Please contact us for details.

**UCH** ← Low ESR **UCZ**

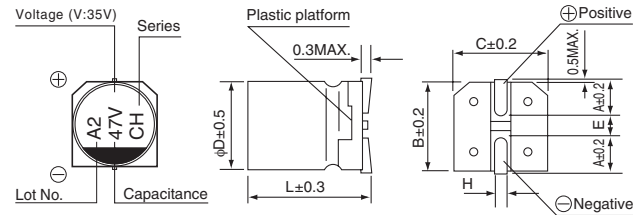


## Specifications

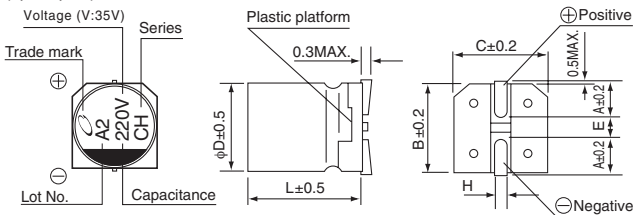
Item	Performance Characteristics				
Category Temperature Range	-40 to +125°C				
Rated Voltage Range	25 to 35V				
Rated Capacitance Range	47 to 560μF				
Capacitance Tolerance	±20% at 120Hz, 20°C				
Leakage Current	After 2 minutes' application of rated voltage at 20°C, leakage current is not more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

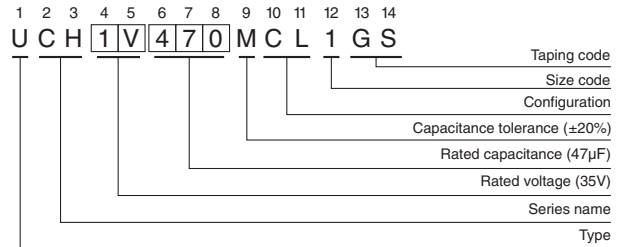
(φ 6.3)



(φ8, φ10)



## Type numbering system (Example : 35V 47μF)



Voltage	25	35
Code	E	V

	(mm)		
φDxL	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 1.1

## 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					
220	221					8 × 10	0.20	2	4.5	270
330	331	8 × 10	0.20	2	4.5	10 × 10	0.15	1.5	3.5	500
560	561	10 × 10	0.15	1.5	3.5					

## 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

Case size φD × L (mm)	Initial 20°C 100kHz	Initial -40°C 100kHz	after endurance test 2000hours -40°C 400kHz	Rated ripple
	ESR			

Rated ripple Current (mArms) at 125°C 100kHz

- Taping specifications are given in page 23.
- Recommended land size, soldering by reflow are given in page 18, 19.
- Please refer to page 3 for the minimum order quantity.