

ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

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**

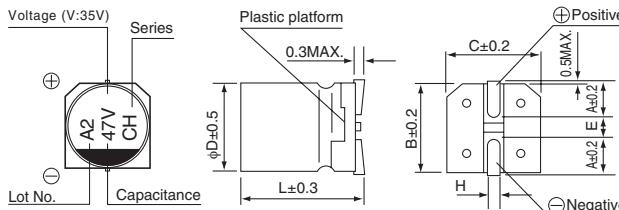


■ Specifications

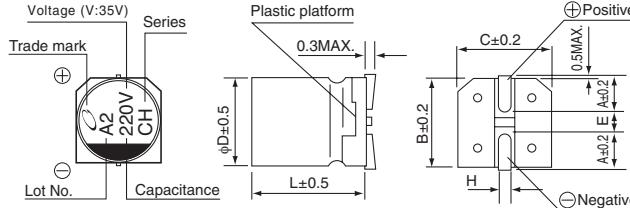
Item	Performance Characteristics								
Category Temperature Range	-40 to +125°C								
Rated Voltage Range	25 to 63V								
Rated Capacitance Range	33 to 560μF								
Capacitance Tolerance	±20% at 120Hz, 20°C								
Leakage Current	After 2 minutes' application of rated voltage at 20°C, leakage current is not more than 0.01CV (μA).								
Tangent of loss angle (tan δ)	Rated voltage (V)	25	35	50	63				
	tan δ (MAX.)	0.18	0.16	0.16	0.14				
	Measurement frequency : 120Hz at 20°C								
Stability at Low Temperature	Rated voltage (V)	25	35	50	63				
	Impedance ratio ZT / Z20 (MAX.) Z-40°C / Z+20°C	3	3	3	3				
	Measurement frequency : 120Hz								
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

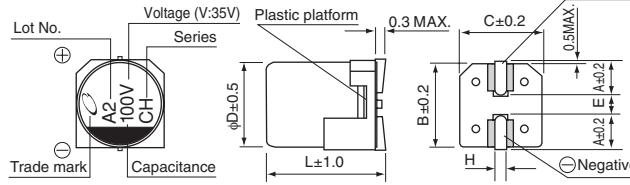
(φ6.3) [Standard]



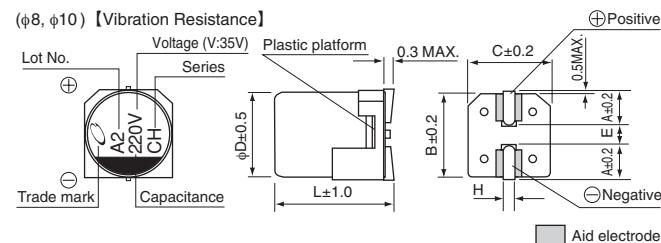
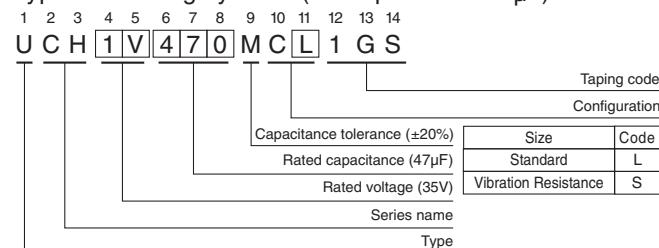
(φ8, φ10) [Standard]



(φ6.3) [Vibration Resistance]



Type numbering system (Example : 35V 47μF)



Voltage	Standard	(mm)	Vibration Resistance	(mm)
V 25 35 50 63	Ød4: 6.3×7.7 8×10 10×10		Ød4: 6.3×7.7 8×10 10×10	
Code E V H J	A 2.4 2.9 3.2		A 2.4 2.9 3.2	
	B 6.6 8.3 10.3		B 6.6 8.3 10.3	
	C 6.6 8.3 10.3		C 6.6 8.3 10.3	
	E 2.2 3.1 4.5		E 2.2 3.1 4.5	
	L 7.7 10 10		L 7.7 10 10	
	H 0.5 to 0.8 0.8 to 1.1 0.8 to 11		H 0.5 to 0.8 1.1 to 1.5 1.1 to 1.5	

● 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

● Dimension table in next page.

CAT.8100K

UCH

■ Dimensions

Rated Voltage (V) (code)	Rated Capacitance (μ F)	Case Size ϕ D×L(mm)	tan δ	Leakage Current (μ A) (at 20°C after 2 minutes)	ESR(Ω) MAX.			Rated Ripple (mArms) (125°C/100kHz)	Part Number
					Initial 20°C 100kHz	Initial -40°C 100kHz	after endurance test 200hours -40°C 400kHz		
25 (1E)	150	6.3×7.7	0.18	37.5	0.30	3.0	6.0	197	UCH1E151MC□1GS
	330	8×10	0.18	82.5	0.20	2.0	4.5	270	UCH1E331MC□1GS
	560	10×10	0.18	140	0.15	1.5	3.5	500	UCH1E561MC□1GS
35 (1V)	47	6.3×7.7	0.16	16.45	0.30	3.0	6.0	197	UCH1V470MC□1GS
	100	6.3×7.7	0.16	35	0.30	3.0	6.0	197	UCH1V101MC□1GS
	220	8×10	0.16	77	0.20	2.0	4.5	270	UCH1V221MC□1GS
	330	10×10	0.16	115.5	0.15	1.5	3.5	500	UCH1V331MC□1GS
50 (1H)	47	6.3×7.7	0.16	23.5	0.80	8.0	—	150	UCH1H470MC□1GS
	100	8×10	0.16	50	0.40	6.0	—	250	UCH1H101MC□1GS
	220	10×10	0.16	110	0.25	3.0	—	400	UCH1H221MC□1GS
63 (1J)	33	6.3×7.7	0.14	20.79	0.80	8.0	—	150	UCH1J330MC□1GS
	68	8×10	0.14	42.84	0.40	6.0	—	250	UCH1J680MC□1GS
	100	10×10	0.14	63	0.25	3.0	—	400	UCH1J101MC□1GS

□ : 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.

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