

ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

UWH

Chip Type, High Reliability
High Temperature (260°C) Reflow



- Corresponding with 260°C peak reflow soldering
Recommended reflow condition : 260°C peak 5 sec. 230°C over 60 sec. 2 times
($\phi 8 \times 6.2$, $\phi 10 \times 10$: 1 time)
- Chip type high temperature range, for +125°C use.
- 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.

UWH

High Temperature Reflow

UUB

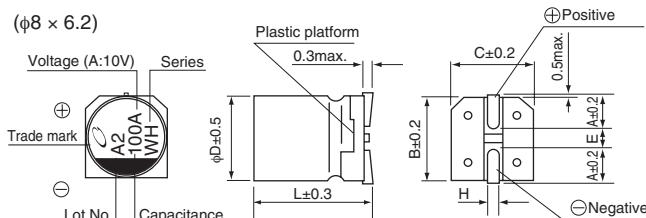


■ Specifications

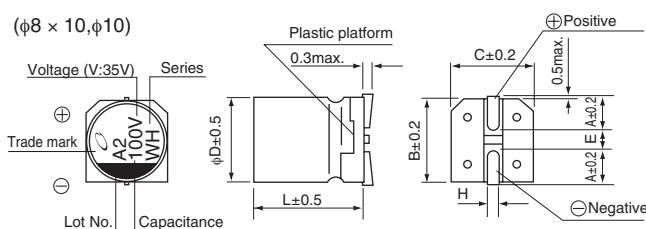
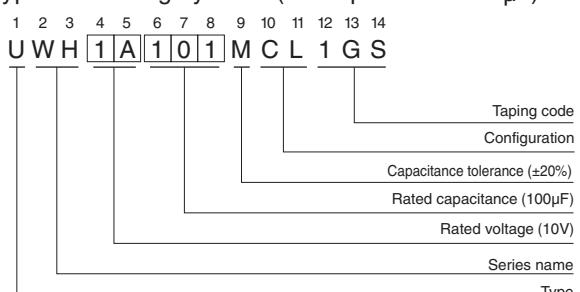
Item	Performance Characteristics				
Category Temperature Range	-40 to +125°C				
Rated Voltage Range	10 to 50V				
Rated Capacitance Range	10 to 330μF				
Capacitance Tolerance	$\pm 20\%$ at 120Hz, 20°C				
Leakage Current *	After 1 minute's application of rated voltage at 20°C, leakage current is not more than 0.03CV or 4(μA), whichever is greater. Measurement frequency : 120Hz at 20°C				
Tangent of loss angle (tan δ)	Rated voltage (V)	10	16	25	35
	tan δ (max.)	0.32	0.24	0.21	0.18
Stability at Low Temperature	Measurement frequency : 120Hz Rated voltage (V) 10 16 25 35 50 Impedance ratio Z(-40°C) / Z(+20°C) 12 8 6 4 4				
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 1000 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



Type numbering system (Example : 10V 100μF)



φD×L	8×6.2	8×10	10×10
A	3.3	2.9	3.2
B	8.3	8.3	10.3
C	8.3	8.3	10.3
E	2.3	3.1	4.5
L	6.2	10	10
H	0.5 to 0.8	0.8 to 1.1	0.8 to 1.1

Voltage

V	10	16	25	35	50
Code	A	C	E	V	H

Frequency coefficient of rated ripple current

Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz or more
Coefficient	0.70	1.00	1.17	1.36	1.50

● Dimension table in next page.

CAT.8100M

UWH

■ Dimensions

Rated Voltage (V) (code)	Rated Capacitance (μ F)	Case Size ϕ D×L(mm)	$\tan \delta$	Leakage Current (μ A) (at 20°C after 1 minute)	Rated Ripple (mArms) (125°C/120Hz)	Part Number
10 (1A)	100	8×6.2	0.32	30	58	UWH1A101MCL1GS
	220	8×10	0.32	66	90	UWH1A221MCL1GS
	330	10×10	0.32	99	112	UWH1A331MCL1GS
16 (1C)	100	8×10	0.24	48	66	UWH1C101MCL1GS
	220	10×10	0.24	105.6	102	UWH1C221MCL1GS
25 (1E)	47	8×6.2	0.21	35.25	48	UWH1E470MCL1GS
	100	8×10	0.21	75	74	UWH1E101MCL1GS
	220	10×10	0.21	165	116	UWH1E221MCL1GS
35 (1V)	33	8×6.2	0.18	34.65	44	UWH1V330MCL1GS
	47	8×10	0.18	49.35	52	UWH1V470MCL1GS
	100	10×10	0.18	105	80	UWH1V101MCL1GS
50 (1H)	10	8×6.2	0.18	15	24	UWH1H100MCL1GS
	22	8×6.2	0.18	33	38	UWH1H220MCL1GS
	33	8×10	0.18	49.5	46	UWH1H330MCL1GS
	47	10×10	0.18	70.5	58	UWH1H470MCL1GS

- For taping specifications, recommended land size/soldering by reflow and minimum order quantity, please refer to the Guidelines for Aluminum Electrolytic Capacitors.