

ALUMINUM ELECTROLYTIC CAPACITORS

UWH

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



For SMD



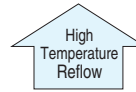
Long Life



Anti-Solvent Feature



UWH



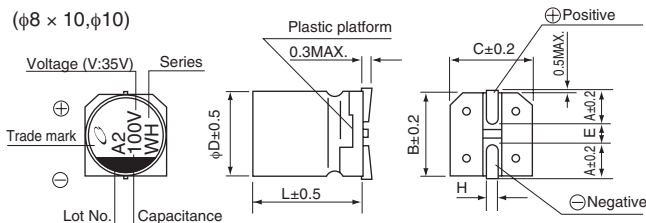
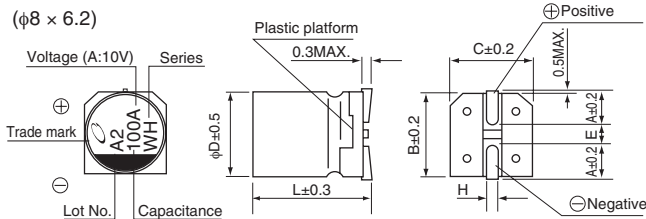
UUB

- Corresponding with 260°C peak reflow soldering
Recommended reflow condition : 260°C peak 5 sec. 230°C over 60 sec. 2 times (φ8 × 6.2, φ10 × 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 compliant. Please contact us for details.

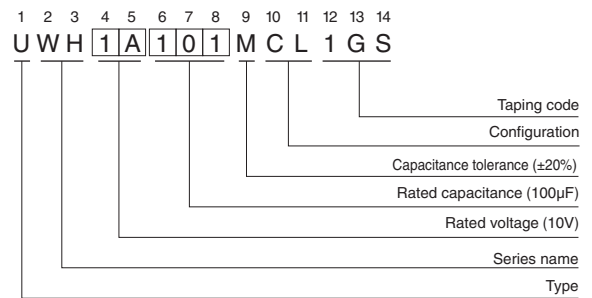
Specifications

Item	Performance Characteristics											
Category Temperature Range	-40 to +125°C											
Rated Voltage Range	10 to 50V											
Rated Capacitance Range	10 to 330μF											
Capacitance Tolerance	±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.											
Tangent of loss angle (tan δ)	Measurement frequency : 120Hz at 20°C											
	Rated voltage (V)	10	16	25	35	50						
	tan δ (MAX.)	0.32	0.24	0.21	0.18	0.18						
Stability at Low Temperature	Measurement frequency : 120Hz											
	Rated voltage (V)	10	16	25	35	50						
	Impedance ratio ZT / Z20 (MAX.)	Z-40°C / Z+20°C	12	8	6	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.		<table border="1"> <tr> <td>Capacitance change</td> <td>Within ±30% of the initial capacitance value</td> </tr> <tr> <td>tan δ</td> <td>300% or less than the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>Less than or equal to the initial specified value</td> </tr> </table>				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
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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.		<table border="1"> <tr> <td>Capacitance change</td> <td>Within ±10% of the initial capacitance value</td> </tr> <tr> <td>tan δ</td> <td>Less than or equal to the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>Less than or equal to the initial specified value</td> </tr> </table>				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
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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



Type numbering system (Example : 10V 100μF)



	(mm)		
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.

UWH

■ Dimensions

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

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