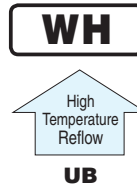


ALUMINUM ELECTROLYTIC CAPACITORS

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



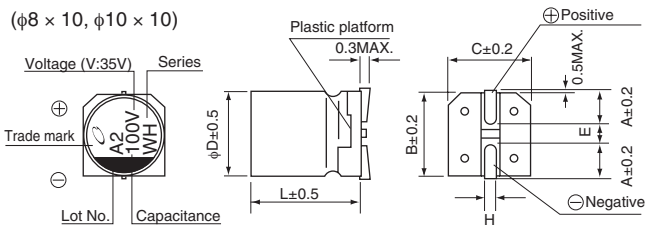
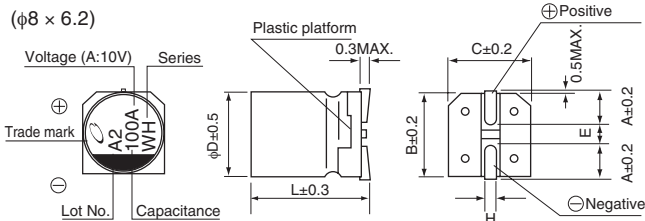
- Corresponding with 260°C peak reflow soldering
Recommended reflow condition : 260°C peak 5 sec. 230°C over 60 sec. 2 times
(φ8 × 6.2, φ10 × 10 : 1 time)
- Chip type high temperature range, for +125°C use.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU).



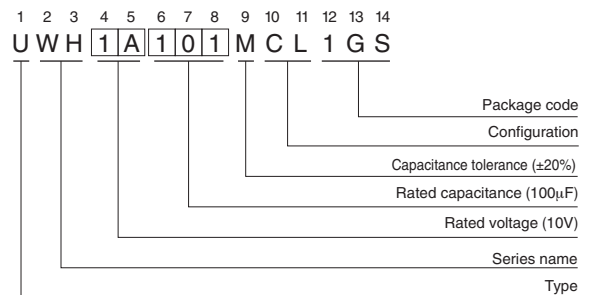
Specifications

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, 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.					
	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



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

● Dimension table in next page.

■ Dimensions

Cap.(μ F)	V Code	10		16		25		35		50	
		1A		1C		1E		1V		1H	
10	100									8 x 6.2	24
22	220									8 x 6.2	38
33	330							8 x 6.2	44	8 x 10	46
47	470					8 x 6.2	48	8 x 10	52	10 x 10	58
100	101	8 x 6.2	58	8 x 10	66	8 x 10	74	10 x 10	80		
220	221	8 x 10	90	10 x 10	102	10 x 10	116				
330	331	10 x 10	112							Case size ϕ D x L (mm)	Rated ripple

Rated ripple current (mArms) at 125°C 120Hz

● 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

- 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.

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