

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









- Corresponding with 260°C peak reflow soldering Recomended reflow condition: 260°C peak 5 sec. 230°C over 60 sec. 2 times  $(\phi 8 \times 6.2, \phi 10 \times 10 : 1 \text{ time})$
- 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.



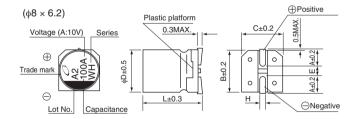


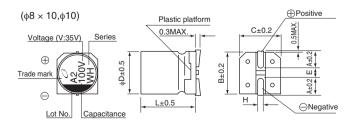


## ■Specifications

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.					
	Measurement frequency : 120Hz at 20°C					
Tangent of loss angle (tan δ)	Rated voltage (V) 10 16 25 35 50					
	tan δ (MAX.) 0.32 0.24 0.21 0.18 0.18					
	Measurement frequency : 120Hz					
Otabilita at Laur Tanananatura	Rated voltage (V) 10 16 25 35 50					
Stability at Low Temperature	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 $\pm 30\%$ of the initial capacitance value $\tan \delta$ 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 $20^{\circ}$ C.					
Marking	Black print on the case top.					

#### ■Chip Type

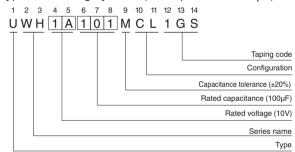




## Voltage

V	10	16	25	35	50
Code	Α	С	Е	V	Н

# Type numbering system (Example : 10V 100µF)



			(mm)
φD×L	8 × 6.2	8×10	10×10
Α	3.3	2.9	3.2
В	8.3	8.3	10.3
С	8.3	8.3	10.3
E	2.3	3.1	4.5
L	6.2	10	10
Н	0.5 to 0.8	0.8 to 1.1	0.8 to 1.1

## • 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



## **■** Dimensions

Rated Voltage (V) (code)	Rated Capacitance (µF)	Case Size φD×L(mm)	tan δ	Leakage Current (µA) (at 20°C after 1 minute	Rated Ripple (mArms) (125°C/120Hz)	Part Number
	100	8×6.2	0.32	30	58	UWH1A101MCL1GS
10 (1A)	220	8×10	0.32	66	90	UWH1A221MCL1GS
(11.4)	330	10×10	0.32	99	112	UWH1A331MCL1GS
16	100	8×10	0.24	48	66	UWH1C101MCL1GS
(1C)	220	10×10	0.24	105.6	102	UWH1C221MCL1GS
	47	8×6.2	0.21	35.25	48	UWH1E470MCL1GS
25 (1E)	100	8×10	0.21	75	74	UWH1E101MCL1GS
(/	220	10×10	0.21	165	116	UWH1E221MCL1GS
	33	8×6.2	0.18	34.65	44	UWH1V330MCL1GS
35 (1V)	47	8×10	0.18	49.35	52	UWH1V470MCL1GS
(,	100	10×10	0.18	105	80	UWH1V101MCL1GS
	10	8×6.2	0.18	15	24	UWH1H100MCL1GS
50	22	8×6.2	0.18	33	38	UWH1H220MCL1GS
(1H)	33	8×10	0.18	49.5	46	UWH1H330MCL1GS
	47	10×10	0.18	70.5	58	UWH1H470MCL1GS

<sup>•</sup> Taping specifications are given in page 20.

<sup>Recommended land size, soldering by reflow are given in page 16, 17.
Please refer to page 3 for the minimum order quantity.</sup>