







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



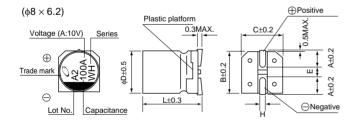


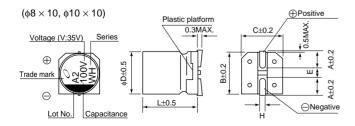


■ Specifications

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 vo	After 1 minute's application of rated voltage, leakage current is not more than 0.03CV or 4(µA), whichever is greater.								
			Measure	ment	freque	ncy : 12	0Hz 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	3	0.18			
	Measurement frequency : 120Hz									
Stability at Low Temperature	Rated voltage (V)	10	16	2	5	35	50			
Stability at Low Temperature	Impedance ratio ZT / Z20 (MAX.) 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							or less than the intial 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 of the initial specified									
Marking	Black print on the case top.									

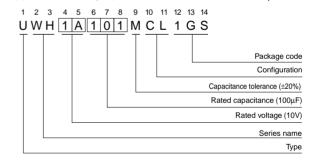
■Chip Type





Voltage					
V	10	16	25	35	50
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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



Dimensions

	V	1	0	16		25		35		50	
Cap.(µF)	Code	1	A	1C		1E		1V		1H	
10	100		 		 					8×6.2	24
22	220		 		 		 			8×6.2	38
33	330		 		 		 	8×6.2	44	8×10	46
47	470		 		 	8×6.2	48	8×10	52	10×10	58
100	101	8×6.2	58	8×10	66	8×10	74	10×10	80		
220	221	8×10	90	10×10	102	10×10	116			Case size	Rated
330	331	10×10	112		i !					φD×L (mm)	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.