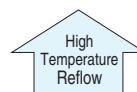


UWHChip Type, High Reliability
High Temperature (260°C) Reflow

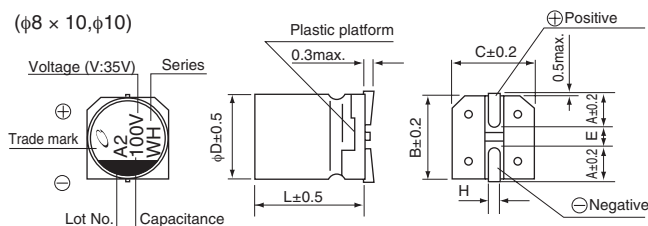
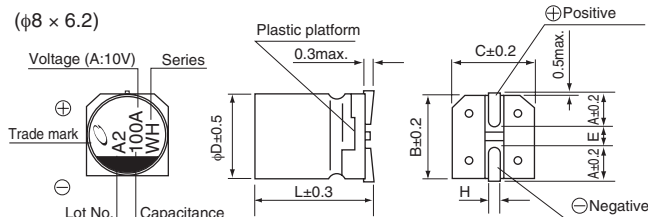
For SMD

Long Life

- 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**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	± 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	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 intial 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 (μ A), C : Rated Capacitance (μ F), V : Rated Voltage (V)**Chip Type****Voltage**

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

Type numbering system (Example : 10V 100 μ F)

1	2	3	4	5	6	7	8	9	10	11	12	13	14
U	W	H	1	A	1	0	1	M	C	L	1	G	S

UWH

■ Dimensions

Rated Voltage (V) (code)	Rated Capacitance (μ F)	Case Size ϕ D $\times$ L (mm)	$\tan \delta$	Leakage Current (μ A) (at 20°C after 1 minute)	Rated Ripple (mA _{rms}) (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.