

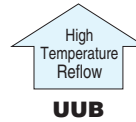
# ALUMINUM ELECTROLYTIC CAPACITORS

# UWH

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



**UWH**

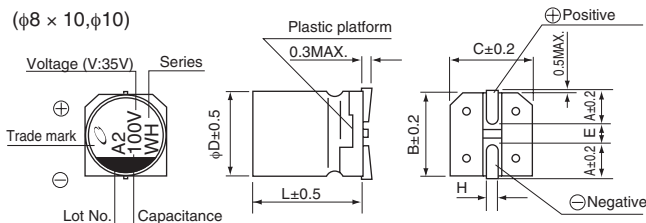
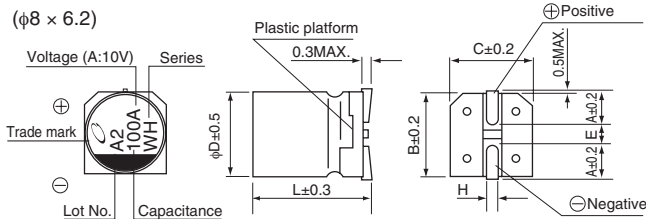


- Corresponding with 260°C peak reflow soldering  
Recommended reflow condition : 260°C peak 5 sec. 230°C over 60 sec. 2 times (φ8 × 6.2, φ10 × 10 : 1 time)
- Chip type high temperature range, for +125°C use.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).
- AEC-Q200 compliant. Please contact us for details.

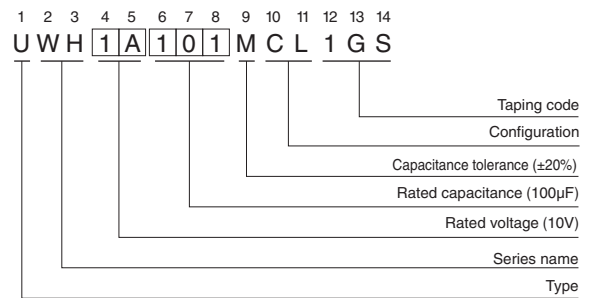
## Specifications

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
	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.		<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
	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

## 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 ( $\mu$ F)	Case Size $\phi$ D $\times$ L (mm)	tan $\delta$	Leakage Current ( $\mu$ 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.

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Aluminium Electrolytic Capacitors - SMD category](#):*

*Click to view products by [Nichicon manufacturer](#):*

Other Similar products are found below :

[ULV2H4R7MNL1GS](#) [ULV2H1R8MNL1GS](#) [MAL214099813E3](#) [CA025M4R70REB-0405](#) [HUB1800-S](#) [UCX1V471MNQ1MS](#) [10SVP120M](#)  
[DV100M050C055ETR](#) [RVJ-50V101MH10U-R](#) [AEH1012471M016R](#) [MAL213967339E3](#) [GVT1C337M0608CNVC](#) [ATB106M050D058](#)  
[ATB476M050F065](#) [ATB476M035E058](#) [ATB107M016E058](#) [ATB107M035E077](#) [EMVE350ARA101MF80G](#) [EMHL250ARA221MHA0G](#)  
[ATB477M016F102](#) [EMK1EM331FB0D00R](#) [EMF1CM221FB0D00R](#) [EMF1CM331FB0D00R](#) [EMF1CM471FB0D00R](#)  
[EMK1JM101GB0D00R](#) [EMK1AM102GB0D00R](#) [EMK1HM221GB0D00R](#) [DV221M6R3E055ETR](#) [DV221M025E077ETR](#)  
[RV331M025F105ETR](#) [RVT1A101M0505](#) [GVZ1H101M0607](#) [CK1E100M0405](#) [GVM1E331M0607](#) [VT10UF100V167RV0127](#)  
[VT100UF16V167RV0124](#) [CS100UF35V167RV0155](#) [CK220UF16V167RV0142](#) [VT10UF16V167RV0128](#) [VT22UF35V167RV0131](#)  
[CS470UF10V167RV0150](#) [CK100UF16V167RV0138](#) [CK220UF10V167RV0141](#) [RVT330UF25V167RV0055](#) [CS47UF16V167RV0152](#)  
[VT470UF16V167RV0135](#) [CS100UF10V167RV0144](#) [126RV0017](#) [VT47UF35V167RV0137](#) [CS220UF35V167RV0148](#)