



**THE DATASHEET OF  
UUB2G1R8MNL1GS**



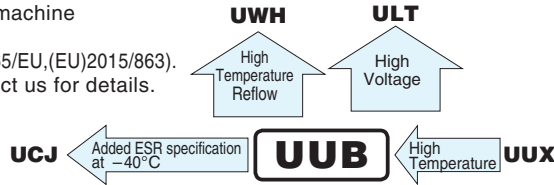
# ALUMINUM ELECTROLYTIC CAPACITORS

# UUB

Chip Type, High Reliability



- 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.

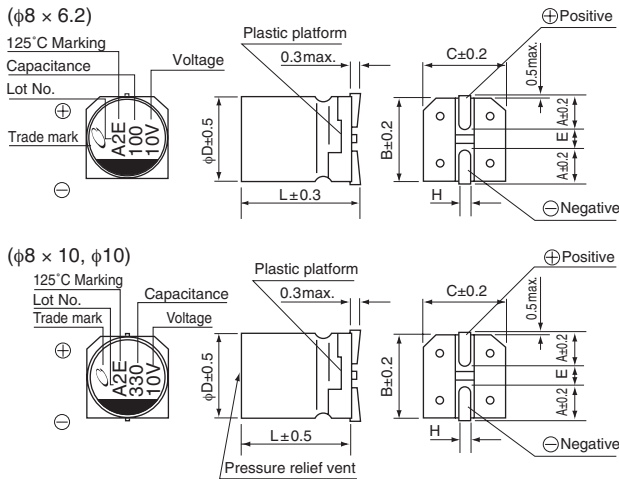


## Specifications

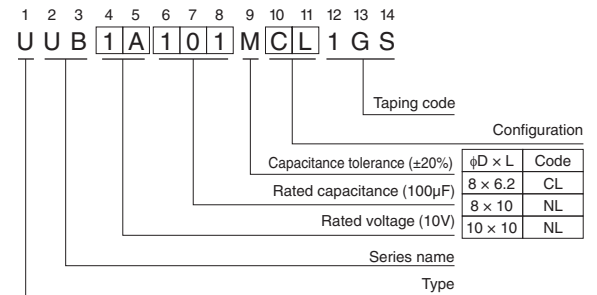
Item	Performance Characteristics										
Category Temperature Range	-40 to +125°C										
Rated Voltage Range	10 to 400V										
Rated Capacitance Range	1 to 330μF										
Capacitance Tolerance	±20% at 120Hz, 20°C										
Leakage Current ※	Rated voltage (V)	10 to 50									
	Leakage Current	After 1 minute's application of rated voltage at 20°C, leakage current is not more than 0.03CV (μA). I = 0.04CV+100 (μA) max.(1 minute's at 20°C)									
Tangent of loss angle (tan δ)	Measurement frequency : 120Hz at 20°C										
	Rated voltage (V)	10	16	25	35	50	160	200	250	400	
Stability at Low Temperature	Measurement frequency : 120Hz										
	Rated voltage (V)	10	16	25	35	50	160	200	250	400	
Endurance	Impedance ratio ZT / Z20 (max.)	Z(-40°C) / Z(+20°C)	12	8	6	4	4	8	8	8	12
	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 2000 hours (1000 hours for φ8 × 6.2) at 125°C.		Capacitance change	Within ±30% of the initial capacitance 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.		tan δ	300% or less than the initial specified value							
	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.		Leakage current	Less than or equal to the initial specified value							
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							
	Black print on the case top.		tan δ	Less than or equal to the initial specified value							
Marking	Black print on the case top.		Leakage current	Less than or equal to the initial specified value							

※ I : Leakage Current (μA), C : Rated Capacitance (μF), V : Rated Voltage (V)

## Chip Type



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



φD × L (mm)	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

## 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.

UUB

## ■ 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 (mA <sub>rms</sub> ) (125°C/120Hz)	Part Number
10 (1A)	100	8 $\times$ 6.2	0.32	30	58	UUB1A101MCL1GS
	220	8 $\times$ 10	0.32	66	90	UUB1A221MNL1GS
	330	10 $\times$ 10	0.32	99	112	UUB1A331MNL1GS
16 (1C)	100	8 $\times$ 10	0.24	48	66	UUB1C101MNL1GS
	220	10 $\times$ 10	0.24	105.6	102	UUB1C221MNL1GS
25 (1E)	47	8 $\times$ 6.2	0.21	35.25	48	UUB1E470MCL1GS
	100	8 $\times$ 10	0.21	75	74	UUB1E101MNL1GS
	220	10 $\times$ 10	0.21	165	116	UUB1E221MNL1GS
35 (1V)	33	8 $\times$ 6.2	0.18	34.65	44	UUB1V330MCL1GS
	47	8 $\times$ 10	0.18	49.35	52	UUB1V470MNL1GS
	100	10 $\times$ 10	0.18	105	80	UUB1V101MNL1GS
50 (1H)	10	8 $\times$ 6.2	0.18	15	24	UUB1H100MCL1GS
	22	8 $\times$ 6.2	0.18	33	38	UUB1H220MCL1GS
	33	8 $\times$ 10	0.18	49.5	46	UUB1H330MNL1GS
	47	10 $\times$ 10	0.18	70.5	58	UUB1H470MNL1GS
160 (2C)	6.8	8 $\times$ 10	0.30	143.52	42	UUB2C6R8MNL1GS
	10	10 $\times$ 10	0.30	164	59	UUB2C100MNL1GS
200 (2D)	4.7	8 $\times$ 10	0.30	137.6	36	UUB2D4R7MNL1GS
	6.8	10 $\times$ 10	0.30	154.4	59	UUB2D6R8MNL1GS
	10	10 $\times$ 10	0.30	180	59	UUB2D100MNL1GS
250 (2E)	3.3	8 $\times$ 10	0.30	133	28	UUB2E3R3MNL1GS
	4.7	10 $\times$ 10	0.30	147	59	UUB2E4R7MNL1GS
400 (2G)	1	8 $\times$ 10	0.30	116	26	UUB2G010MNL1GS
	1.8	8 $\times$ 10	0.30	128.8	27	UUB2G1R8MNL1GS
	2.2	10 $\times$ 10	0.30	135.2	36	UUB2G2R2MNL1GS
	3.3	10 $\times$ 10	0.30	152.8	38	UUB2G3R3MNL1GS

- For taping specifications, recommended land size/soldering by reflow and minimum order quantity, please refer to the Guidelines for Aluminum Electrolytic Capacitors.

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