

UUB

Chip Type, High Reliability



For SMD

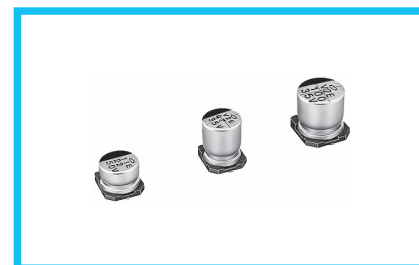
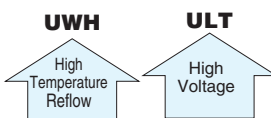


Long Life



Anti-Solvent
Feature
(Through 50V only)

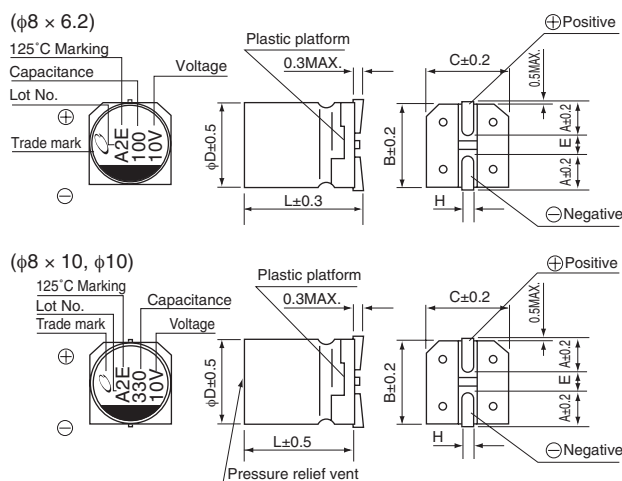
- Chip type, high temperature range, for +125°C use.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU, (EU)2015/863).
- AEC-Q200 compliant. Please contact us for details.



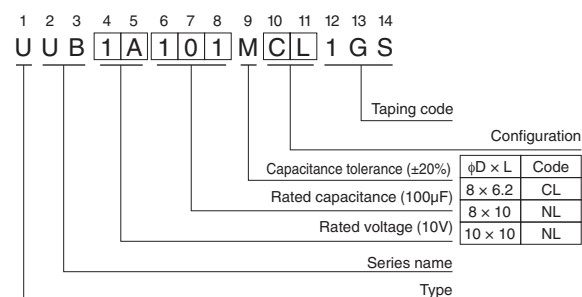
Specifications

Item	Performance Characteristics										
Category Temperature Range	-40 to +125°C										
Rated Voltage Range	10 to 400V										
Rated Capacitance Range	1 to 330μF										
Capacitance Tolerance	±20% at 120Hz, 20°C										
Leakage Current	Rated voltage (V)	10 to 50								160 to 400	
	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	
	tan δ (MAX.)	0.32	0.24	0.21	0.18	0.18	0.30	0.30	0.30	0.30	
Stability at Low Temperature	Measurement frequency : 120Hz										
	Rated voltage (V)		10	16	25	35	50	160	200	250	400
	Impedance ratio ZT / Z20 (MAX.)	Z-40°C / Z+20°C	12	8	6	4	4	8	8	8	12
Endurance	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								
	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.										
	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)



φ × 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

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 (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	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

- Taping specifications are given in page 20.
- Recommended land size, soldering by reflow are given in page 16, 17.
- Please refer to page 3 for the minimum order quantity.

Mouser Electronics

Authorized Distributor

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[UUB2G3R3MNL1GS](#)