ALUMINUM ELECTROLYTIC CAPACITORS

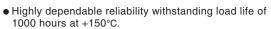
UBC

Chip Type, High Temperature Range, Vibration Resistance









- Suited for automobile electronics where heavy duty services are indispensable.
- Compliant to the RoHS directive (2011/65/EU).
- AEC-Q200 compliant. Please contact us for details.



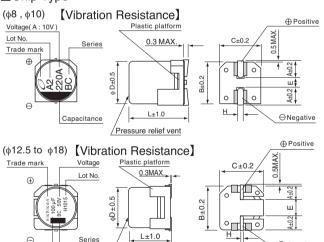




■ Specifications

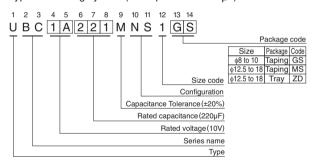
Item	Performance Characteristics								
Category Temperature Range	-40 to +150°C (φ8 to 10), -55 to +150°C (φ12.5 to 18)								
Rated Voltage Range	10 to 50V								
Rated Capacitance Range	33 to 3300μF								
Capacitance Tolerance	±20% at 120Hz, 20°C								
Leakage Current	After 1 minute	After 1 minute's application of rated voltage at 20°C, leakage current is not more than 0.03CV or 4 (μA), whichever is greater.							
	Rated	voltage (V)	10	16	25	35	50	120Hz 20°C	
Tangent of less angle (tan S)	tan δ	φ8,φ10	0.26	0.20	0.16	0.14	0.14		
Tangent of loss angle (tan δ)	(MAX.)	φ 12.5 to φ 18	0.22	0.18	0.16	0.14	0.12		
	For capacitance of more than 1000µF, add 0.02 for every increase of 1000µF.								
	Rated	voltage (V)	10	16	25	35	50	120Hz	
Stability at Low Temperature		φ8,φ10	10	8	6	4	4		
	Z-40°C / Z+20°C (MAX.)	φ 12.5 to φ 18	8	6	4	4	4		
	The specifications listed at right shall be met when the Capacitance change Within ±30% of the initial capacitance value								
Endurance	capacitors are restored to 20°C after the rated voltage is $tan δ$						300% or less than the initial specified value		
	applied for 1000 hours at 150°C. Leakage current Less than or equal to the initial specified value								
Shelf Life	After storing the capacitors under no load at 150°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4								
Stiell Life	clause 4.1 at 20°C, they shall meet the specified values for the endurance characteristics listed above.								
Marking	Black print on the case top.								

■Chip Type



Pressure relief vent

Type numbering system (Example: 10V 220µF)



					(mm)
\$	8	10	12.5	16	18
Α	2.9	3.2	4.8	5.4	6.4
В	8.3	10.3	13.6	17.1	19.1
С	8.3	10.3	13.6	17.1	19.1
E	3.1	4.5	4.0	6.3	6.3
L	10	10	13.5	16.5,21.5	21.5
Н	1.1 to 1.5	1.1 to 1.5	1.0 to 1.4	1.0 to 1.4	1.0 to 1.4

Dimensions

Capacitance

	V	10		16		25		35		50	
Cap.(μF)	Code	1A		1C		1E		1V		1H	
33	330						!			8 × 10	70
47	470				İ		İ	8×10	80	10×10	100
100	101			8×10	110	8 × 10	110	10×10	120	12.5 × 13.5	420
220	221	8 × 10	110	10×10	¦ 150	10×10	150	12.5 × 13.5	550	16 × 16.5	550
330	331	10×10	150			12.5 × 13.5	650	12.5 × 13.5	650	16×21.5	650
470	471			12.5 × 13.5	750	12.5 × 13.5	700	16×16.5	750	16 × 21.5	850
680	681	12.5 × 13.5	800	12.5 × 13.5	¦ 800	16×16.5	800	16 ×21.5	950	18 × 21.5	1100
1000	102	12.5 × 13.5	900	16 × 16.5	850	16 × 21.5	1000	18 × 21.5	1150		i I
2200	222	18 × 21.5	1350	18 × 21.5	1350		1			Case size	Rated
3300	332	18 × 21.5	1400		i		i			$\phi D \times L (mm)$	ripple

⊖Negative

Aid electrode

Rated ripple current (mArms) at 150°C 100kHz

• Frequency coefficient of rated ripple current

Frequency	120 Hz	300 Hz	1 kHz	10kHz or more	
Coefficient	0.67	0.79	0.91	1.00	

• 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.

CAT.8100H

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Nichicon:

```
        UBC1A332MNS1MS
        UBC1A222MNS1MS
        UBC1A681MNS1MS
        UBC1C102MNS1MS
        UBC1C222MNS1MS

        UBC1C471MNS1MS
        UBC1C681MNS1MS
        UBC1E102MNS1MS
        UBC1E331MNS1MS
        UBC1A102MNS1MS

        UBC1H101MNS1MS
        UBC1E471MNS1MS
        UBC1V681MNS1MS
        UBC1H221MNS1MS
        UBC1H331MNS1MS

        UBC1H471MNS1MS
        UBC1H681MNS1MS
        UBC1V102MNS1MS
        UBC1V221MNS1MS
        UBC1V471MNS1MS

        UBC1E681MNS1MS
        UBC1V331MNS1MS
        UBC1A221MNS1GS
        UBC1A331MNS1GS
        UBC1C101MNS1GS

        UBC1C221MNS1GS
        UBC1E101MNS1GS
        UBC1V470MNS1GS
        UBC1V101MNS1GS
        UBC1H330MNS1GS

        UBC1H470MNS1GS
        UBC1A102MNS1ZD
        UBC1A222MNS1ZD
        UBC1A332MNS1ZD
        UBC1E102MNS1ZD

        UBC1C102MNS1ZD
        UBC1C222MNS1ZD
        UBC1C681MNS1ZD
        UBC1E102MNS1ZD
        UBC1H221MNS1ZD

        UBC1H331MNS1ZD
        UBC1H471MNS1ZD
        UBC1H681MNS1ZD
        UBC1V102MNS1ZD
        UBC1V221MNS1ZD

        UBC1V331MNS1ZD
        UBC1V471MNS1ZD
        UBC1V681MNS1ZD
        UBC1E221MNS1GS
        UBC1V221MNS1ZD
```