

ALUMINUM ELECTROLYTIC CAPACITORS

UBC

Chip Type, High Temperature Range,
Vibration Resistance



- Highly dependable reliability withstanding load life of 1000 hours at +150°C.
- Suited for automobile electronics where heavy duty services are indispensable.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).
- AEC-Q200 compliant. Please contact us for details.

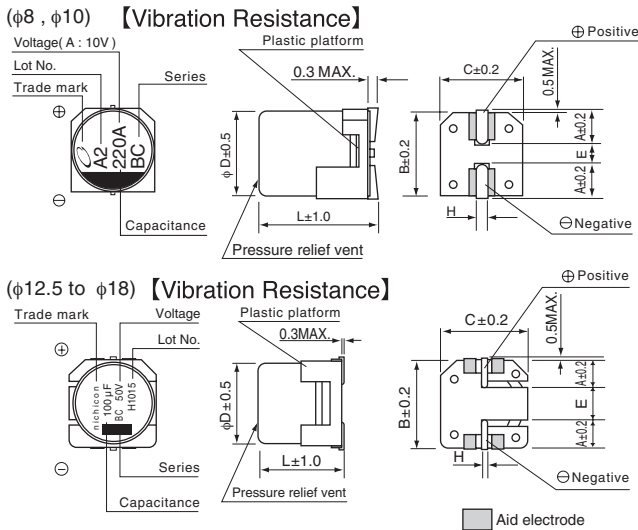
UBC



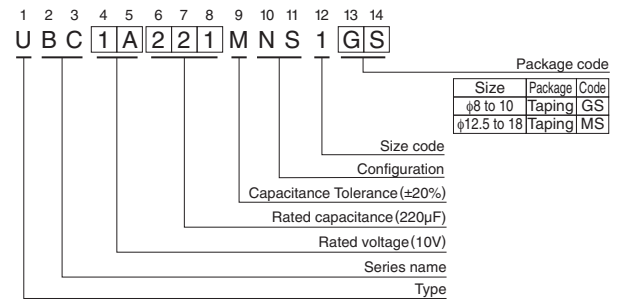
Specifications

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'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)	Rated voltage (V)	10	16	25	35	50	120Hz 20°C						
	tan δ (MAX.)	φ8, φ10	0.26	0.20	0.16	0.14		0.14					
		φ12.5 to φ18	0.22	0.18	0.16	0.14		0.12					
For capacitance of more than 1000μF, add 0.02 for every increase of 1000μF. (φ12.5 to φ18)													
Stability at Low Temperature	Rated voltage (V)	10	16	25	35	50	120Hz						
	Impedance ratio Z-40°C / Z+20°C (MAX.)	φ8, φ10	10	8	6	4		4					
		φ12.5 to φ18	8	6	4	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 150°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
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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 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



Type numbering system (Example : 10V 220μF)



	(mm)				
φD	8	10	12.5	16	18
A	2.9	3.2	4.8	5.4	6.4
B	8.3	10.3	13.6	17.1	19.1
C	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
H	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

Cap. (μF)	V	10		16		25		35		50	
		Code	1A	1C	1E	1V	1H	Case size φD × L (mm)	Rated ripple		
33	330									8 × 10	70
47	470									10 × 10	100
100	101			8 × 10	110	8 × 10	110	8 × 10	80	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		
2200	222	18 × 21.5	1350	18 × 21.5	1350						
3300	332	18 × 21.5	1400								

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

单击下面可查看定价，库存，交付和生命周期等信息

[>>Nichicon\(尼吉康\)](#)