

ALUMINUM ELECTROLYTIC CAPACITORS

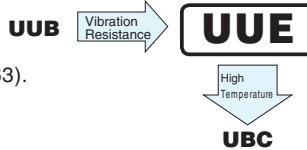
nichicon

UUE

Chip Type, Vibration Resistance



- Chip type with load life of 2000 to 5000 hours at 125°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.

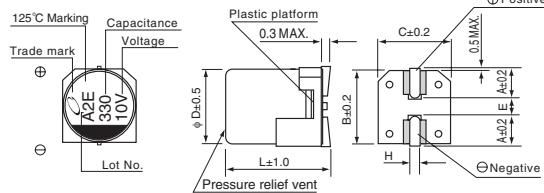


■ Specifications

Item	Performance Characteristics					
Category Temperature Range	-40 to +125°C ($\phi 8, \phi 10$), -55 to +125°C ($\phi 12.5$ to 18)					
Rated Voltage Range	10 to 50V					
Rated Capacitance Range	33 to 4700μF					
Capacitance Tolerance	$\pm 20\%$ 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)	For capacitance of more than 1000μF, add 0.02 for every increase of 1000μF. ($\phi 12.5$ to $\phi 18$)					
Stability at Low Temperature	Rated voltage (V)	10	16	25	35	50
	Impedance ratio Z-40°C / Z+20°C (MAX)	$\phi 8, \phi 10$	10	8	6	4
	$\phi 12.5$ to $\phi 18$	8	6	4	3	3
	Rated voltage (V)	10	16	25	35	50
Endurance	Impedance ratio Z-40°C / Z+20°C (MAX)	$\phi 8, \phi 10$	10	8	6	4
	$\phi 12.5$ to $\phi 18$	8	6	4	3	3
Shelf Life	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 5000 hours (2000 hours for $\phi D=8$ and 10) at 125°C.				Capacitance change	Within $\pm 30\%$ of the initial capacitance value
					tan δ	300% or less than the initial specified value
Marking	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.				Leakage current	Less than or equal to the initial specified value

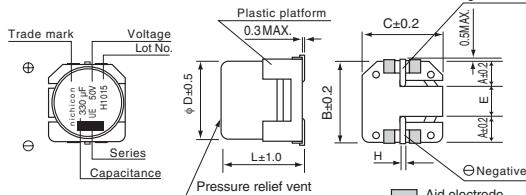
■ Chip Type

($\phi 8, \phi 10$) [Vibration Resistance]



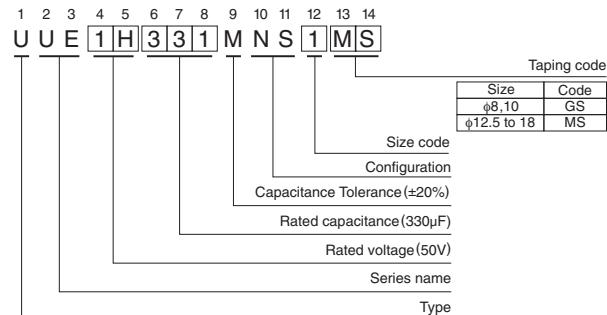
※ $\phi 8$ to $\phi 10$ The standard structure product is also available upon request, please refer to UUB.

($\phi 12.5$ to $\phi 18$) [Vibration Resistance]



※ $\phi 12.5$ to $\phi 18$ The standard structure product is also available upon request, please ask for details.

Type numbering system (Example : 50V 330μF)



	Φ D	8	10	12.5	16	18	(mm)
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	16.5, 21.5	16.5, 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		

● Frequency coefficient of rated ripple current

Φ D	Frequency Cap.(μF)	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz or more
Φ 8, Φ 10	33 to 330	0.47	0.67	0.78	0.91	1.00
Φ 10 to 680	100 to 680	0.53	0.67	0.82	0.89	1.00
Φ 12.5 to Φ 18	1000 to 4700	0.74	0.87	0.96	0.98	1.00

● Dimension table in next page.

CAT.8100K

UUE

■ Dimensions

Rated Voltage (V) (code)	Rated Capacitance (μ F)	Case Size ϕ D×L(mm)	$\tan \delta$	Leakage Current (μ A) (at 20°C after 1 minute)	Rated Ripple (mArms) (125°C/100kHz)	Part Number
10 (1A)	220	8×10	0.26	66	140	UUE1A221MNS1GS
	330	10×10	0.26	99	190	UUE1A331MNS1GS
	470	12.5×13.5	0.22	141	750	UUE1A471MNS1MS
	680	12.5×16	0.22	204	900	UUE1A681MNS1MS
	1000	12.5×16	0.22	300	900	UUE1A102MNS1MS
	2200	18×16.5	0.24	660	1200	UUE1A222MNS1MS
	2200	16×21.5	0.24	660	1200	UUE1A222MNS6MS
	3300	18×16.5	0.26	990	1200	UUE1A332MNS1MS
	4700	18×21.5	0.28	1410	1550	UUE1A472MNS1MS
16 (1C)	100	8×10	0.20	48	140	UUE1C101MNS1GS
	220	10×10	0.20	105.6	190	UUE1C221MNS1GS
	330	12.5×13.5	0.18	158.4	750	UUE1C331MNS1MS
	470	12.5×13.5	0.18	225.6	750	UUE1C471MNS1MS
	680	16×16.5	0.18	326.4	1000	UUE1C681MNS1MS
	1000	18×16.5	0.18	480	1200	UUE1C102MNS1MS
	2200	18×16.5	0.20	1056	1200	UUE1C222MNS1MS
	2200	16×21.5	0.20	1056	1200	UUE1C222MNS1MS
25 (1E)	100	8×10	0.16	75	140	UUE1E101MNS1GS
	220	10×10	0.16	165	190	UUE1E221MNS1GS
	330	12.5×13.5	0.16	247.5	750	UUE1E331MNS1MS
	470	16×16.5	0.16	352.5	1000	UUE1E471MNS1MS
	680	18×16.5	0.16	510	1200	UUE1E681MNS1MS
	680	16×21.5	0.16	510	1200	UUE1E681MNS6MS
	1000	18×21.5	0.16	750	1550	UUE1E102MNS1MS
35 (1V)	47	8×10	0.14	49.35	100	UUE1V470MNS1GS
	100	10×10	0.14	105	150	UUE1V101MNS1GS
	220	12.5×13.5	0.14	231	550	UUE1V221MNS1MS
	330	16×16.5	0.14	346.5	1000	UUE1V331MNS1MS
	470	16×16.5	0.14	493.5	1000	UUE1V471MNS1MS
	680	18×16.5	0.14	714	1200	UUE1V681MNS1MS
	1000	18×21.5	0.14	1050	1400	UUE1V102MNS6MS
50 (1H)	33	8×10	0.14	49.5	90	UUE1H330MNS1GS
	47	10×10	0.14	70.5	130	UUE1H470MNS1GS
	100	12.5×13.5	0.12	150	500	UUE1H101MNS1MS
	220	16×16.5	0.12	330	850	UUE1H221MNS1MS
	330	16×16.5	0.12	495	850	UUE1H331MNS1MS
	470	18×16.5	0.12	705	950	UUE1H471MNS1MS

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