

ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

UH
series

Chip Type, High Reliability, Higher Capacitance Range



For SMD



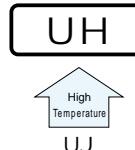
Long Life



Anti-Solvent Feature

- Chip Type, higher capacitance in larger case sizes ($\phi 12.5$, $\phi 16$, $\phi 18$, $\phi 20$)
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine fed with carrier tape and tray.
- Compliant to the RoHS directive (2002/95/EC).

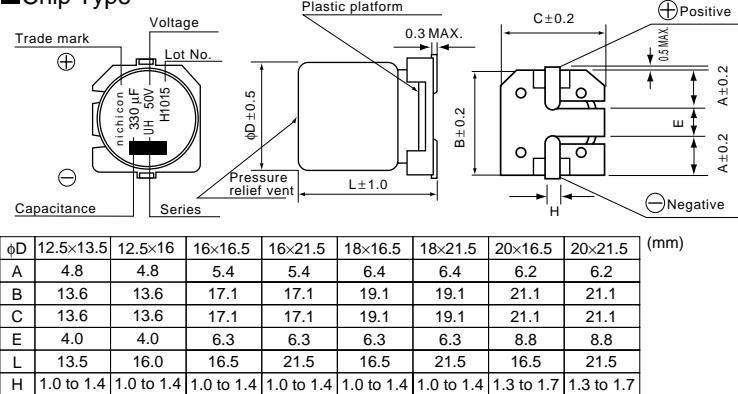
Products which are scheduled to be discontinued.
Not recommended for new designs



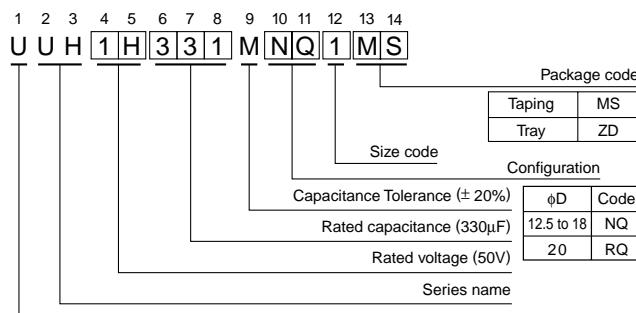
■ Specifications

Item	Performance Characteristics							
Category Temperature Range	-55 to +125°C							
Rated Voltage Range	10 to 50V							
Rated Capacitance Range	100 to 3300μF							
Capacitance Tolerance	±20% at 120Hz, 20°C							
Leakage Current	After 1 minute's application of rated voltage, 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)	0.22	0.18	0.16	0.14	0.12		
For capacitance of more than 1000μF, add 0.02 for every increase of 1000μF.								
Stability at Low Temperature	Rated voltage (V)	10	16	25	35	50	120Hz	
	Impedance ratio Z-25°C / Z+20°C	4	3	2	2	2		
	ZT/Z20 (MAX.) Z-40°C / Z+20°C	8	6	4	3	3		
Endurance	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 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.							
Marking	Black print on the case top.							

■ Chip Type



Type numbering system (Example : 50V 330μF)



■ Dimensions

V (μF) Cap.	Code	10		16		25		35		50	
		1A	1C	1E	1V	1H					
100	101									12.5 × 13.5	170
220	221									12.5 × 13.5	200
330	331		12.5 × 13.5	210	12.5 × 13.5	230	16 × 16.5	280	16 × 21.5	340	
470	471	12.5 × 13.5	230	12.5 × 13.5	250	16 × 16.5	310	18 × 16.5	380	18 × 21.5	430
1000	102	12.5 × 16	350	16 × 16.5	440	18 × 21.5	540	16 × 21.5	380		
2200	222	18 × 16.5	620	18 × 21.5	710						
3300	332	18 × 21.5	770							Case size φD × L (mm)	Rated ripple

* In this case, [6] will be put at 12th digit of type numbering system, "▲"

Rated ripple current (mA rms) at 125°C 120Hz

● Frequency coefficient of rated ripple current

Cap.(μF)	Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz or more
100 to 470		0.80	1.00	1.23	1.34	1.50
1000 to 3300		0.85	1.00	1.10	1.13	1.15

- 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.8100B