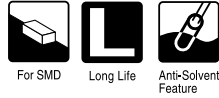


# ALUMINUM ELECTROLYTIC CAPACITORS

**UH series** Chip Type, High Reliability, Higher Capacitance Range



- 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

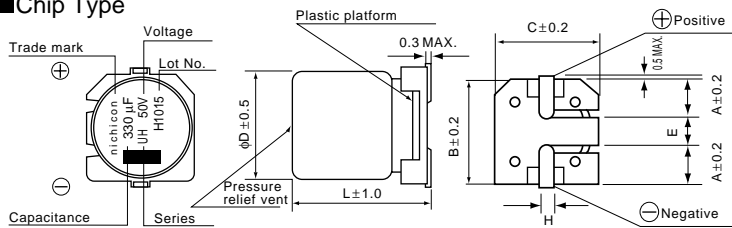
UH



## Specifications

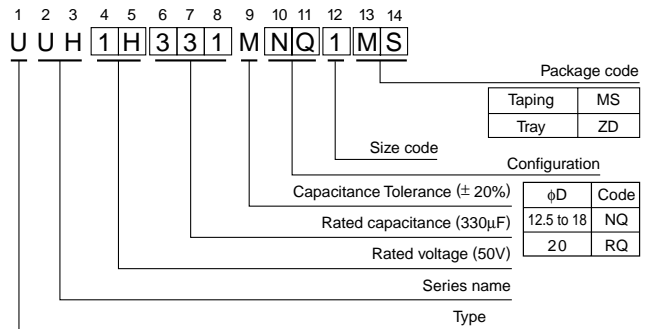
Item	Performance Characteristics							
Category Temperature Range	-55 to +125°C							
Rated Voltage Range	10 to 50V							
Rated Capacitance Range	100 to 3300 $\mu$ F							
Capacitance Tolerance	$\pm 20\%$ at 120Hz, 20°C							
Leakage Current	After 1 minute's application of rated voltage, leakage current is not more than 0.03CV or 4 ( $\mu$ A), whichever is greater.							
Tangent of loss angle (tan $\delta$ )	Rated voltage (V)	10	16	25	35	50	120Hz 20°C	
	tan $\delta$ (MAX)	0.22	0.18	0.16	0.14	0.12		
For capacitance of more than 1000 $\mu$ F, add 0.02 for every increase of 1000 $\mu$ F.								
Stability at Low Temperature	Rated voltage (V)	10	16	25	35	50	120Hz	
	Impedance ratio ZT / Z20 (MAX.)	Z-25°C / Z+20°C	4	3	2	2		2
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 $\pm 30\%$ of the initial capacitance value
							tan $\delta$	300% or less than 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.						Leakage current	Less than or equal to the initial specified value
Marking	Black print on the case top.							

## Chip Type



$\phi D$	12.5x13.5	12.5x16	16x16.5	16x21.5	18x16.5	18x21.5	20x16.5	20x21.5	(mm)
A	4.8	4.8	5.4	5.4	6.4	6.4	6.2	6.2	
B	13.6	13.6	17.1	17.1	19.1	19.1	21.1	21.1	
C	13.6	13.6	17.1	17.1	19.1	19.1	21.1	21.1	
E	4.0	4.0	6.3	6.3	6.3	6.3	8.8	8.8	
L	13.5	16.0	16.5	21.5	16.5	21.5	16.5	21.5	
H	1.0 to 1.4	1.0 to 1.4	1.0 to 1.4	1.0 to 1.4	1.0 to 1.4	1.0 to 1.4	1.3 to 1.7	1.3 to 1.7	

Type numbering system (Example : 50V 330 $\mu$ F)



## Dimensions

Cap. ( $\mu$ F)	Code	10		16		25		35		50	
		1A		1C		1E		1V		1H	
100	101									12.5 x 13.5	170
220	221							12.5 x 13.5	200	16 x 16.5	250
330	331			12.5 x 13.5	210	12.5 x 13.5	230	16 x 16.5	280	16 x 21.5	340
470	471	12.5 x 13.5	230	12.5 x 13.5	250	16 x 16.5	310	18 x 16.5	380	18 x 21.5	430
1000	102	12.5 x 16	350	16 x 16.5	440	18 x 21.5	540	16 x 21.5	380		
2200	222	18 x 16.5	620	18 x 21.5	710	20 x 16.5	540	20 x 21.5	610		
3300	332	18 x 21.5	770							Case size $\phi D \times L$ (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. ( $\mu$ F)	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.

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