

ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

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

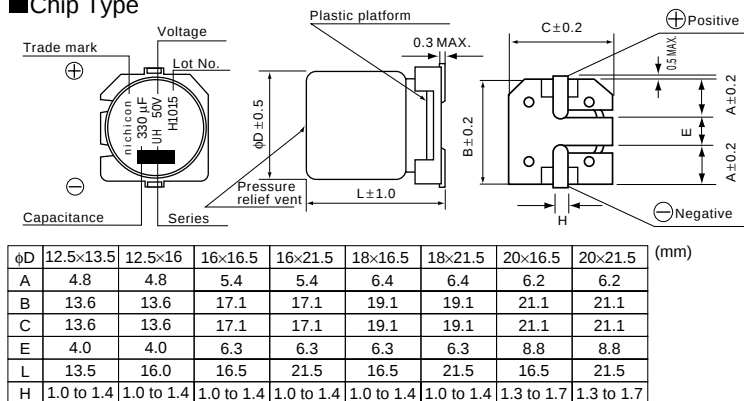
UH



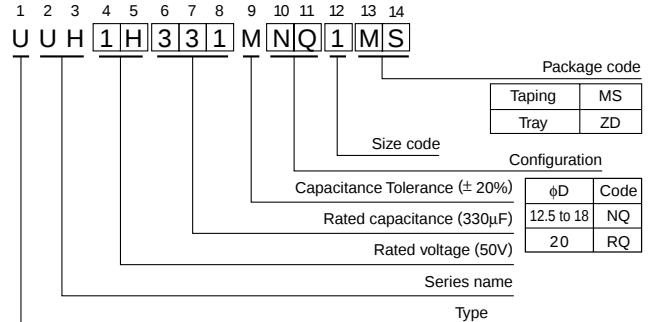
Specifications

Item	Performance Characteristics					
Category Temperature Range	-55 to +125°C					
Rated Voltage Range	10 to 50V					
Rated Capacitance Range	100 to 3300 μ 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 (μ A), whichever is greater.					
Tangent of loss angle (tan δ)	Rated voltage (V)	10	16	25	35	50
	tan δ (MAX)	0.22	0.18	0.16	0.14	0.12
For capacitance of more than 1000 μ F, add 0.02 for every increase of 1000 μ F.						
Stability at Low Temperature	Rated voltage (V)	10	16	25	35	50
	Impedance ratio ZT / Z20 (MAX.)	4	3	2	2	2
Endurance	Rated voltage (V)	10	16	25	35	50
	tan δ	4	3	2	2	2
Shelf Life	Rated voltage (V)	10	16	25	35	50
	tan δ	4	3	2	2	2
Marking	Black print on the case top.					

Chip Type



Type numbering system (Example : 50V 330 μ F)



Dimensions

Cap. (μF)	Code	10		16		25		35		50	
		1A	1C	1E	1V	1H	1I	1J	1K	1L	1M
100	101									12.5 × 13.5	170
220	221							12.5 × 13.5	200	16 × 16.5	250
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	20 × 21.5	610		
2200	222	18 × 16.5	620	18 × 21.5	710						
3300	332	18 × 21.5	770								

* 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

Mouser Electronics

Authorized Distributor

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Nichicon:

<u>UUH1H101MNL1MS</u>	<u>UUH1V471MNL1MS</u>	<u>UUH1A471MNL1MS</u>	<u>UUH1A471MNL1ZD</u>	<u>UUH1A102MNL1MS</u>
<u>UUH1A102MNL1ZD</u>	<u>UUH1A222MNL6MS</u>	<u>UUH1A222MNL6ZD</u>	<u>UUH1A222MNL1MS</u>	<u>UUH1A222MNL1ZD</u>
<u>UUH1A332MNL1MS</u>	<u>UUH1A332MNL1ZD</u>	<u>UUH1C331MNL1MS</u>	<u>UUH1C331MNL1ZD</u>	<u>UUH1C471MNL1MS</u>
<u>UUH1C471MNL1ZD</u>	<u>UUH1C102MNL1MS</u>	<u>UUH1C102MNL1ZD</u>	<u>UUH1C222MNL1MS</u>	<u>UUH1C222MNL1ZD</u>
<u>UUH1E331MNL1MS</u>	<u>UUH1E331MNL1ZD</u>	<u>UUH1E471MNL1MS</u>	<u>UUH1E471MNL1ZD</u>	<u>UUH1E102MNL1MS</u>
<u>UUH1E102MNL1ZD</u>	<u>UUH1E102MRL6MS</u>	<u>UUH1E102MRL6ZD</u>	<u>UUH1V221MNL1MS</u>	<u>UUH1V221MNL1ZD</u>
<u>UUH1V331MNL1MS</u>	<u>UUH1V331MNL1ZD</u>	<u>UUH1V471MNL6MS</u>	<u>UUH1V471MNL6ZD</u>	<u>UUH1V471MNL1ZD</u>
<u>UUH1V102MRL1MS</u>	<u>UUH1V102MRL1ZD</u>	<u>UUH1H101MNL1ZD</u>	<u>UUH1H331MNL1MS</u>	<u>UUH1H331MNL1ZD</u>
<u>UUH1H331MNL6MS</u>	<u>UUH1H331MNL6ZD</u>	<u>UUH1H471MNL1MS</u>	<u>UUH1H471MNL1ZD</u>	<u>UUH1H101MNQ1MS</u>
<u>UUH1A102MNQ1MS</u>	<u>UUH1A222MNQ1MS</u>	<u>UUH1A222MNQ6MS</u>	<u>UUH1A332MNQ1MS</u>	<u>UUH1A471MNQ1MS</u>
<u>UUH1C102MNQ1MS</u>	<u>UUH1C222MNQ1MS</u>	<u>UUH1C331MNQ1MS</u>	<u>UUH1C471MNQ1MS</u>	<u>UUH1E102MNQ1MS</u>
<u>UUH1E102MRQ6MS</u>	<u>UUH1E331MNQ1MS</u>	<u>UUH1E471MNQ1MS</u>	<u>UUH1H221MNQ1MS</u>	<u>UUH1H331MNQ1MS</u>
<u>UUH1H331MNQ6MS</u>	<u>UUH1H471MNQ1MS</u>	<u>UUH1V102MRQ1MS</u>	<u>UUH1V221MNQ1MS</u>	<u>UUH1V331MNQ1MS</u>
<u>UUH1V471MNQ1MS</u>	<u>UUH1V471MNQ6MS</u>	<u>UUH1A102MNQ1ZD</u>	<u>UUH1A222MNQ1ZD</u>	<u>UUH1A222MNQ6ZD</u>
<u>UUH1A332MNQ1ZD</u>	<u>UUH1A471MNQ1ZD</u>	<u>UUH1C102MNQ1ZD</u>	<u>UUH1C222MNQ1ZD</u>	<u>UUH1C331MNQ1ZD</u>
<u>UUH1C471MNQ1ZD</u>	<u>UUH1E102MNQ1ZD</u>	<u>UUH1E102MRQ6ZD</u>	<u>UUH1E331MNQ1ZD</u>	<u>UUH1E471MNQ1ZD</u>
<u>UUH1H101MNQ1ZD</u>	<u>UUH1H221MNQ1ZD</u>	<u>UUH1H331MNQ1ZD</u>	<u>UUH1H331MNQ6ZD</u>	<u>UUH1H471MNQ1ZD</u>
<u>UUH1V102MRQ1ZD</u>	<u>UUH1V221MNQ1ZD</u>	<u>UUH1V331MNQ1ZD</u>	<u>UUH1V471MNQ1ZD</u>	<u>UUH1V471MNQ6ZD</u>