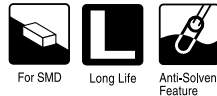


ALUMINUM ELECTROLYTIC CAPACITORS

UH series Chip Type, High Reliability, Higher Capacitance Range



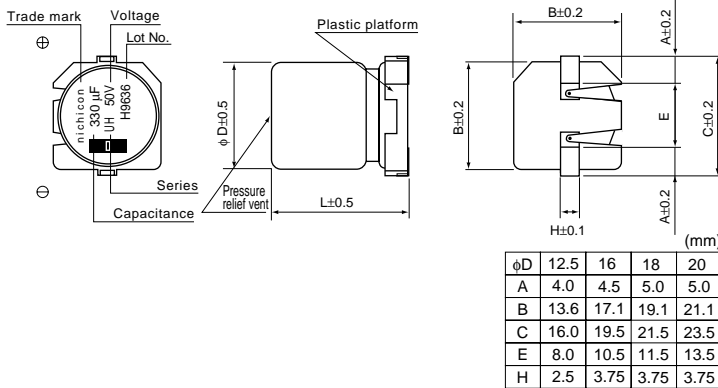
- Chip Type, higher capacitance in larger case sizes (φ12.5, φ16, φ18, φ20)
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine using carrier tape and tray.



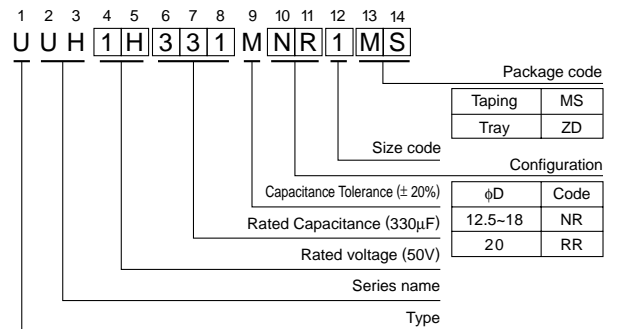
Specifications

Item	Performance Characteristics							
Category Temperature Range	-55 ~ +125°C							
Rated Voltage Range	10 ~ 50V							
Rated Capacitance Range	100 ~ 3300μF							
Capacitance Tolerance	±20% at 120Hz, 20°C							
Leakage Current	After 1 minutes' application of rated voltage, leakage current is not more than 0.03CV or 4 (μA), whichever is greater.							
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 ZT / Z20 (MAX.)	Z-25°C / Z+20°C	4	3	2	2		2
		Z-40°C / Z+20°C	8	6	4	3	3	
Endurance	After 5000 hours' application of rated voltage at 125°C, capacitors meet the characteristic requirements listed at right.						Capacitance change	Within ±30% of initial value
							tan δ	300% or less of initial specified value
							Leakage current	Initial specified value or less
Shelf Life	After leaving capacitors under no load at 125°C for 1000 hours, they meet the specified value for endurance characteristics listed above.							
Marking	Black print on the case top.							

Chip Type



Type numbering system (Example : 50V 330μF)



Dimensions

Cap. (μF)	Code	V		10		16		25		35		50	
		1A	1C	1E	1V	1H	1H	1H					
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	18 × 16.5	380	16 × 21.5	340	340
470	471	12.5 × 13.5	230	12.5 × 13.5	250	16 × 16.5	310	18 × 16.5	380	18 × 21.5	18 × 21.5	430	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	▲ 16 × 21.5							
3300	332	▲ 16 × 21.5	620										
		18 × 21.5	770										
												Case size	Rated Ripple

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

Rated Ripple (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~
100 ~ 470		0.80	1.00	1.23	1.34	1.50
1000 ~ 3300		0.85	1.00	1.10	1.13	1.15

- Taping specifications are given in page 22.
- Recommended land size are given in page 23
- Please refer to page 3 for the minimum order quantity.