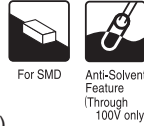
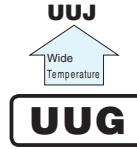


UUG

Chip Type, Higher Capacitance Range



- Chip Type, higher capacitance in larger case sizes (φ12.5, φ16, φ18)
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU, (EU)2015/863).
- AEC-Q200 compliant. Please contact us for details.

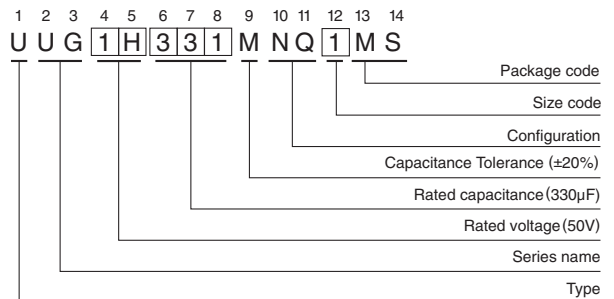
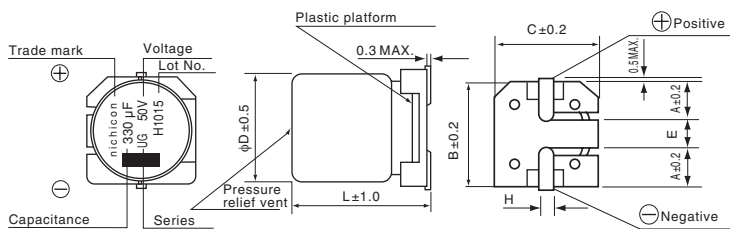


Specifications

Item	Performance Characteristics											
Category Temperature Range	-40 to +85°C											
Rated Voltage Range	6.3 to 450V											
Rated Capacitance Range	4.7 to 10000μF											
Capacitance Tolerance	±20% at 120Hz, 20°C											
Leakage Current	Rated voltage (V)	6.3 to 100							160 to 450			
	—	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.							I = 0.04CV+100 (μA) max. (1 minute's at 20°C)			
Tangent of loss angle (tan δ)	Measurement frequency : 120Hz at 20°C											
	Rated voltage (V)	6.3	10	16	25	35	50	63	100	160 to 250	400 · 450	
	tan δ (MAX.)	0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.08	0.20	0.25	
For capacitance of more than 1000μF, add 0.02 for every increase of 1000μF. (φ12.5 to φ18)												
Stability at Low Temperature	Measurement frequency: 120Hz											
	Rated voltage (V)	6.3	10	16	25	35	50	63	100	160 to 250	400 · 450	
	Impedance ratio (MAX.)	Z-25°C / Z+20°C	5	4	3	2	2	2	2	2	3	6
		Z-40°C / Z+20°C	12	10	8	5	4	3	3	3	10	
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 2000 hours at 85°C.											
	Capacitance change	Within ±20% of the initial capacitance value										
	tan δ	200% or less than the initial specified value										
Shelf Life	After storing the capacitors under no load at 85°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											
Marking	Black print on the case top.											

Chip Type

Type numbering system (Example : 50V 330μF)



(mm)

φD	12.5×13.5	12.5×16	12.5×21	16×16.5	16×21.5	18×16.5	18×21.5
A	4.8	4.8	4.8	5.4	5.4	6.4	6.4
B	13.6	13.6	13.6	17.1	17.1	19.1	19.1
C	13.6	13.6	13.6	17.1	17.1	19.1	19.1
E	4.0	4.0	4.0	6.3	6.3	6.3	6.3
L	13.5	16.0	21.0	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	1.0 to 1.4

※ The vibration structure-resistant product is also available upon request, please ask for details.

● Dimension table in next page.



■ Dimensions

(μF) Cap.	Code	V		6.3		10		16		25		35		50	
				0J		1A		1C		1E		1V		1H	
220	221													12.5 × 13.5	450
330	331													12.5 × 13.5	520
470	471									12.5 × 13.5	550	12.5 × 13.5	580	● 16 × 16.5	740
1000	102				12.5 × 13.5	620	12.5 × 13.5	710	12.5 × 16	820	● 16 × 16.5	1000	18 × 21.5	1150	
2200	222	12.5 × 16	890	12.5 × 16	960	● 16 × 16.5	1150	△ 18 × 16.5	1350	18 × 21.5	1550				
3300	332	● 16 × 16.5	1200	16 × 16.5	1300	△ 18 × 16.5	1450	18 × 21.5	1700						
4700	472	16 × 16.5	1400	△ 18 × 16.5	1500	18 × 21.5	1750								
6800	682	△ 18 × 16.5	1650	18 × 21.5	1850										
10000	103	18 × 21.5	2000	□ 18 × 21.5	2200										

(μF) Cap.	Code	V		63		100		160		200		250		400		450	
				1J		2A		2C		2D		2E		2G		2W	
4.7	4R7													12.5 × 13.5	115	12.5 × 13.5	115
10	100											12.5 × 13.5	150	● 16 × 16.5	140	● 16 × 16.5	140
22	220									12.5 × 13.5	235	12.5 × 16	240	△ 18 × 16.5	280	16 × 21.5	275
33	330									12.5 × 16	310	● 16 × 16.5	340	18 × 21.5	350	18 × 21.5	345
47	470							12.5 × 16	370	● 16 × 16.5	415	△ 18 × 16.5	415	□ 18 × 21.5	430		
68	680				12.5 × 13.5	350	● 16 × 16.5	500	△ 18 × 16.5	505	18 × 21.5	490					
100	101	12.5 × 13.5	370	12.5 × 16	440	△ 18 × 16.5	590	18 × 21.5	590								
220	221	12.5 × 16	580	△ 18 × 16.5	665												
330	331	● 16 × 16.5	680	18 × 21.5	825												
470	471	△ 18 × 16.5	850													Case size φD × L (mm)	Rated ripple

□: In this case, [6] will be put at 12th digit of type numbering system.

Size φ12.5×21L is available for capacitors marked."●"
Size φ16×21.5L is available for capacitors marked."△" } In this case, [6] will be put at 12th digit of type numbering system.

Rated ripple current (mArms) at 85°C 120Hz

● Frequency coefficient of rated ripple current

V	Cap.(μF)	Frequency				
		50Hz	120Hz	300Hz	1kHz	10kHz or more
6.3 to 100	68	0.75	1.00	1.35	1.57	2.00
	100 to 470	0.80	1.00	1.23	1.34	1.50
	1000 to 10000	0.85	1.00	1.10	1.13	1.15
160 to 450	4.7 to 100	0.80	1.00	1.25	1.40	1.60

- 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.

Mouser Electronics

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[UUG1A472MNQ6ZD](#) [UUG1H471MNQ6ZD](#) [UUG2E330MNQ6ZD](#) [UUG2G220MNQ6ZD](#)