

ALUMINUM ELECTROLYTIC CAPACITORS

UG

Chip Type, Higher Capacitance Range

series

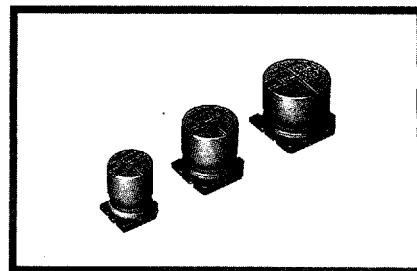


For SMD



Anti-Solvent Feature
(Through 100V only)

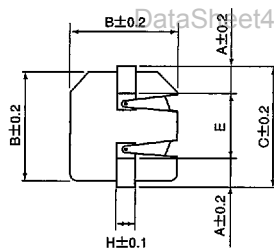
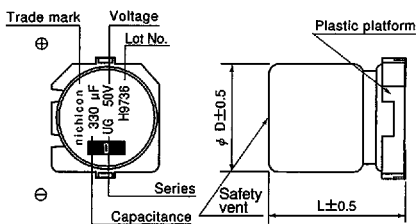
- Chip Type, higher capacitance in larger case sizes (φ12.5, φ16, φ18, φ20)
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine using carrier tape and tray.



Specification

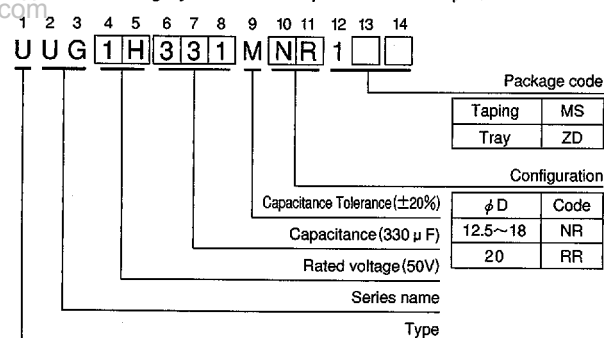
Item	Performance Characteristics											
Operating Temperature Range	-40~+85°C											
Voltage Range	6.3~450V											
Capacitance Range	4.7~10000 μF											
Capacitance Tolerance	±20% (120Hz, 20°C)											
Leakage Current	Rated voltage(V)	6.3~100								160~450		
		After 1 minutes' application of rated voltage, leakage current is not more than 0.03CV or 4(μA), whichever is greater.										
tan δ	Rated voltage(V)	6.3	10	16	25	35	50	63	100	160~250	400~450	120Hz
	tan δ (MAX)	0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.08	0.20	0.25	20°C
For capacitance of more than 1000 μF, add 0.02 for every increase of 1000 μF.												
Stability at Low Temperature	Rated voltage(V)	6.3	10	16	25	35	50	63	100	160~250	400~450	120Hz
	Impedance ratio	Z-25°C/Z+20°C	5	4	3	2	2	2	2	3	6	
	ZT/Z20(MAX.)	Z-40°C/Z+20°C	12	10	8	5	4	3	3	6	10	
Load Life	After 2000 hours' application of rated voltage at 85°C, capacitors meet the characteristics requirements listed at right.											
	Leakage current	Initial specified value or less										
	Capacitance change	Within ±20% of initial value										
	tan δ	200% or less of initial specified value										
Shelf Life	After leaving capacitors under no load at 85°C for 1000 hours, they meet the specified value for load life characteristics listed above.											
Marking	Black print on the case top.											
Applicable Standards	JIS C-5141 JIS C-5102											

Drawing



φ D	12.5	16	18	20
A	4.0	4.5	5.0	5.0
B	13.6	17.1	19.1	21.1
C	16.0	19.5	21.5	23.5
E	8.0	10.5	11.5	13.5
H	2.5	3.75	3.75	3.75

Type numbering system (Example : 50V 330 μF)



Dimension

V (μF) Cap.	Code	DXL (mm)											
		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	20×21.5	2200								

V (μF) Cap.	Code	DXL (mm)													
		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	20×21.5	430		
68	680					● 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	12.6×16	580	△ 18×16.5	665										
330	331	● 16×16.5	680	18×21.5	825										
470	471	△ 18×16.5	850												

Size φ 12.5×21 is available for capacitors marked, "●". Size φ 16×21.5L is available for capacitors marked, "△". Size φ 20×16.5L is available for capacitors marked, "★". Allowable Ripple (mA rms) at 85°C 120Hz

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