



Chip Type, Long Life Assurance

series



For SMD



Long Life



Anti-Solvent Feature

- Chip type with load life of 5,000 hours at +105°C.
- Designed for surface mounting on high density PC board.

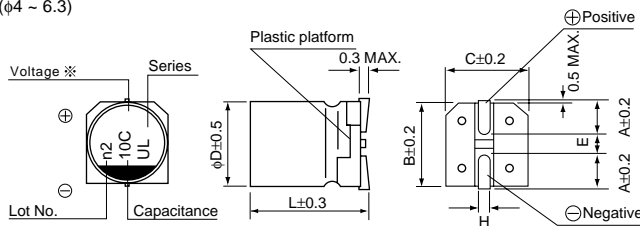


Specifications

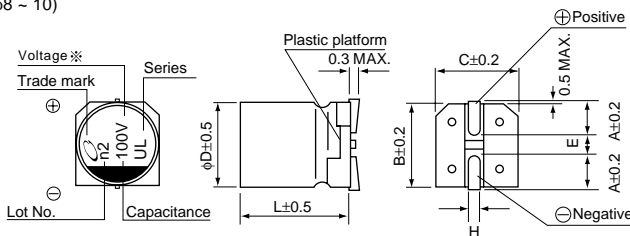
Item	Performance Characteristics				
Category Temperature Range	-40 ~ +105°C				
Rated Voltage Range	10 ~ 50V				
Rated Capacitance Range	0.1 ~ 470μF				
Capacitance Tolerance	±20% at 120Hz, 20°C				
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.01 CV or 3 (μA), Max				
tan δ	Measurement frequency : 120Hz, Temperature : 20°C				
	Rated voltage (V)	10	16	25	35
Stability at Low Temperature	Measurement frequency : 120Hz				
	Rated voltage (V)	10	16	25	35
Endurance	After 5000 hours' application of rated voltage at 105°C, capacitors meet the characteristic requirements listed at right.				
	Capacitance change	Within ±30% of initial value			
Shelf Life	After leaving capacitors under no load at 105°C for 1000 hours, they meet the specified value for endurance characteristics listed above.				
	tan δ	300% or less of initial specified value			
Resistance to soldering heat	The capacitors shall be kept on the hot plate maintained at 250°C for 30 seconds. After removing from the hot plate and restored at room temperature, they meet the characteristic requirements listed at right.				
	Leakage current	Initial specified value or less			
Marking	Black print on the case top.				
	Capacitance change	Within ±10% of initial value			
Marking	Black print on the case top.				
	tan δ	Initial specified value or less			
Marking	Black print on the case top.				
	Leakage current	Initial specified value or less			

Chip Type

(φ4 ~ 6.3)



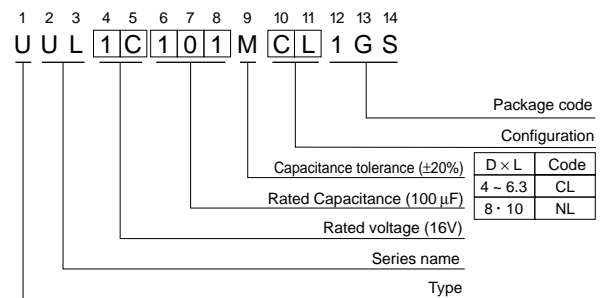
(φ8 ~ 10)



Voltage

V	10	16	25	35	50
Code	A	C	E	V	H

Type numbering system (Example : 16V 100μF)



φ D × L	4 × 5.8	5 × 5.8	6.3 × 5.8	6.3 × 7.7	8 × 10	10 × 10
A	1.8	2.1	2.4	2.4	2.9	3.2
B	4.3	5.3	6.6	6.6	8.3	10.3
C	4.3	5.3	6.6	6.6	8.3	10.3
E	1.0	1.3	2.2	2.2	3.1	4.5
L	5.8	5.8	5.8	7.7	10	10
H	0.5 ~ 0.8	0.5 ~ 0.8	0.5 ~ 0.8	0.5 ~ 0.8	0.8 ~ 1.1	0.8 ~ 1.1

● Dimension table in next page.



■ Dimensions

Cap. (μ F)	V Code	10		16		25		35		50	
		1A		1C		1E		1V		1H	
0.1	0R1									4×5.8	1
0.22	R22									4×5.8	2.6
0.33	R33									4×5.8	3.2
0.47	R47									4×5.8	3.8
1	010									4×5.8	6.2
2.2	2R2									4×5.8	11
3.3	3R3									4×5.8	14
4.7	4R7							4×5.8	15	5×5.8	19
10	100			4×5.8	18	5×5.8	25	5×5.8	25	6.3×5.8	30
22	220	5×5.8	30	5×5.8	30	6.3×5.8	42	6.3×5.8	42	6.3×7.7	49
33	330	5×5.8	35	6.3×5.8	48	6.3×5.8	48	6.3×7.7	57	8×10	77
47	470	6.3×5.8	50	6.3×5.8	50	6.3×7.7	63	8×10	92	8×10	92
100	101	6.3×7.7	81	6.3×7.7	81	8×10	116	10×10	151	10×10	151
220	221	8×10	141	10×10	216	10×10	216	10×10	216		
330	331	10×10	238	10×10	238	10×10	238				
470	471	10×10	254	10×10	254					Case size	Rated ripple

Rated Ripple (mA rms) at 105°C 120Hz

● Frequency coefficient of rated ripple current

Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz~
Coefficient	0.70	1.00	1.17	1.36	1.50

- 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.