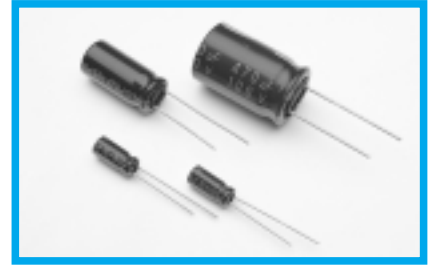
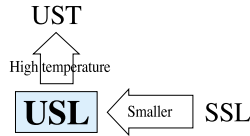


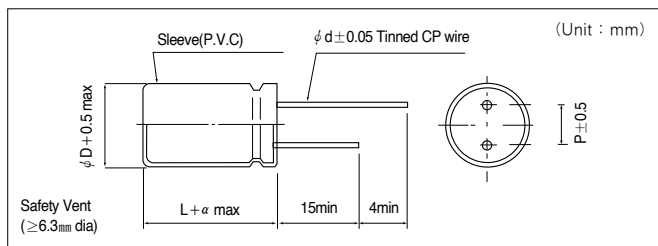
- Small case size than SSL series



Specifications

Item	Performance Characteristics																			
Operating	-40 ~ +85℃ (6.3 ~ 400V), -25 ~ +85℃ (450V)																			
Voltage	6.3 ~ 450V																			
Capacitance Range	1.0 ~ 22000μF																			
Capacitance Tolerance	±20% at 120Hz 20℃																			
Leakage Current	6.3 ~ 100V					160 ~ 450V														
	I = 0.01CV or 3μA whichever is greater (After 2minute)					I = 0.03CV + 15μA(CV ≤ 1000) I = 0.02CV + 25μA(CV > 1000) (After 5minute)														
tan δ	(20℃, 120Hz)																			
	Rated voltage(V)	6.3	10	16	25	35	50	63	100	160~250	350~450									
	tan δ (MAX.)	0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.08	0.15	0.20									
Add 0.02 per 1000μF for more than 1000μF items																				
Stability at Low Temperature	(120Hz)																			
	Rated voltage(V)	6.3	10	16	25	35	50~100	160~400	450											
	Z(-25℃)/Z(+20℃)	5	4	3	2	2	2	3	6											
	Z(-40℃)/Z(+20℃)	12	10	8	5	4	3	6	-											
Load Life	After 2000hours application of DC rated working voltage at 85℃ the measurement shall meet following limits. Measurements shall be performed after 2hours exposure at room temperature.																			
											Leakage current		Initial specified value or less							
											Capacitance change		Within ±20% of the initial measured value							
											tan δ		Within 200% of the initial specified value							
Shelf Life	After 1000hours at 85℃ without voltage application measurements shall meet the following limits. Measurement shall be performed after exposure for 24hours at room temperature after application of DC rated voltage to the capacitors for 30minutes.																			
											Leakage current		Initial specified value or less							
											Capacitance change		Within ±20% of the initial measured value							
											tan δ		Within 200% of the initial specified value							
Marking	Printed with white color letter on blue sleeve																			
Applicable Standards	JIS C—5141, JIS C—5102																			

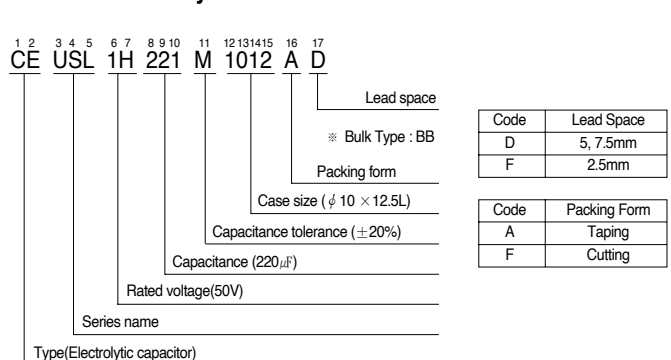
Dimensions



φ D	5	6.3	8	10	13	16	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
φ d	0.5	0.5	0.6	0.6	0.6	0.8	0.8
α	L ≤ 16 : 1.5, L > 16 : 2.0						

In case size L > 25 for φ 13 case sizes, lead diameter φ d 0.8 will be applied.

Part number system



■ Case size table

(ϕ D×Lmm)

W.V(Vdc) Cap(μ F)	6.3 (0J)	10 (1A)	16 (1C)	25 (1E)	35 (1V)	50 (1H)	63 (1J)	100 (2A)	160 (2C)	200 (2D)	250 (2E)	350 (2V)	400 (2G)	450 (2W)
1.0 (0R1)						5×11	5×11	5×11	6.3×11	6.3×11	6.3×11	6.3×11	6.3×11	8×11.5
2.2 (R22)						5×11	5×11	5×11	6.3×11	6.3×11	6.3×11	8×11.5	8×11.5	10×12.5
3.3 (R22)						5×11	5×11	5×11	6.3×11	6.3×11	8×11.5	8×11.5	10×12.5	10×16
4.7 (R47)						5×11	5×11	5×11	6.3×11	8×11.5	8×11.5	10×12.5	10×16	10×20
10 (100)				5×11	5×11	5×11	5×11	6.3×11	10×12.5	10×12.5	10×12.5	10×20	10×20	13×20
22 (220)			5×11	5×11	5×11	5×11	5×11	6.3×11	10×16	10×20	10×20	13×20	13×25	16×25
33 (330)			5×11	5×11	5×11	5×11	6.3×11	8×11.5	10×20	10×20	13×20	16×25	16×25	16×31.5
47 (470)			5×11	5×11	5×11	6.3×11	6.3×11	10×12.5	13×20	13×20	13×25	16×25	16×31.5	16×35.5
100 (101)		5×11	5×11	6.3×11	6.3×11	8×11.5	10×12	10×20	13×25	16×25	16×31.5	16×35.5		
220 (221)	5×11	6.3×11	6.3×11	8×11.5	8×11.5	10×12.5	10×16	13×25	16×31.5	18×35.5	18×40			
330 (331)	6.3×11	6.3×11	8×11.5	8×11.5	10×12.5	10×16	10×20	13×25	18×35.5					
470 (471)	6.3×11	8×11.5	8×11.5	10×12.5	10×16	10×20	13×20	16×25						
1000 (102)	8×11.5	10×12.5	10×16	10×20	13×20	13×25	16×25	18×40						
2200 (222)	10×20	10×20	13×20	13×25	16×25	16×35.5								
3300 (332)	10×20	13×20	13×25	16×25	16×31.5	18×35.5								
4700 (472)	13×20	13×25	16×25	16×31.5	18×35.5									
6800 (682)	13×25	16×25	16×31.5	18×35.5										
10000 (103)	16×25	16×31.5	18×35.5											
15000 (153)	16×31.5	18×35.5												
22000 (223)	18×40													

■ Maximum permissible ripple current

(at 85℃, 120Hz:mArms)

W.V μ F	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450
1						20	22	24	25	25	25	20	24	27
2.2						30	33	37	37	37	37	36	44	44
3.3						37	40	45	45	45	54	54	61	54
4.7						44	48	54	54	66	66	66	75	74
10				55	59	64	70	78	107	107	121	121	121	128
22			74	82	88	95	104	129	180	199	199	212	229	229
33			90	101	108	117	142	194	243	243	288	295	313	303
47			108	121	143	155	169	257	344	344	371	394	404	386
100		144	157	195	209	276	302	468	542	605	654	664		
220	198	237	259	354	379	455	563	887	970	1107	1119			
330	268	290	388	434	516	630	761	1087	1356					
470	320	423	463	576	696	829	1075	1449						
1000	571	686	849	975	1326	1545	1891	2606						
2200	1029	1135	1460	1742	2064	2549								
3300	1305	1585	1806	2261	2753	3116								
4700	1624	2006	2367	2779	3298									
6800	2055	2527	2963	3509										
10000	2654	2889	3897											
15000	3169	3685												
22000	3958													