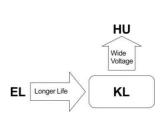
# **ELCON**

### ΚI

#### **Series**

#### 5000 Hours Long Life Assurance

- Wide temperature range -55 ~ +105°C
- Load life of 3000~5000 hours
- RoHS Compliance



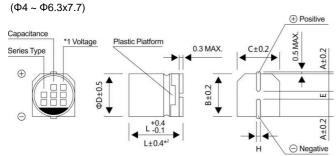


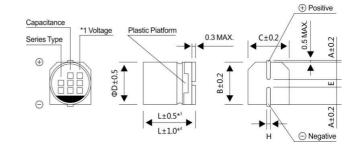
#### **■**SPECIFICATIONS

Item	Characteristics											
Operation Temperature Range	-55 ~ +105°C											
Voltage Range	6.3 ~ 100V											
Capacitance Range	0.1 ~ 1500μF											
Capacitance Tolerance	± 20 % (at 120Hz , 20 ℃)											
	WV(V)	\ /										
	Size	ze Φ4 ~ 10								Ф12.5 ~ 16		
Leakage Current	Time	After 2 minutes (application of rated voltage)							After 1 minutes (application of rated voltage)			
	L.C.			0.01C\ icheve						I≤0.03CV or 4μA , whichever is greater		
Dissipation Factor (MAX)	V	/V(V)	6.3	10	16	25	35	50~100	]			
(tanδ) (at 120Hz ,20°C)	tanδ	Ф4~10	0.28	0.24	0.20	0.16	0.13	0.12				
(tailo) (at 120112,20 c)	lano	Ф12.5~16	0.38	0.34	0.30	0.26	0.22	0.18				
		WV(V)		6.3	10	16	25	35	50~100			
<del> </del>	Z(-25°C)/ Z(+20°C)		Ф4~10	3	3	2	2	2	2			
Low Temp.Impedance Stability at 120Hz	Z(-55)℃	/ Z(+20°C)	Ψ4~10	8	5	4	3	3	3			
Stability at 120112	Z(-25°C)/ Z(+20°C) Φ12.5~			5	4	3	2	2	2			
	<b>Z(-55)</b> ℃	/ Z(+20℃)	Ψ12.5×10	12	10	8	5	4	3			
	After 5000hrs. (3000hrs. For Φ4~Φ6.3x5.8) application of the rated voltage at 105°C, they meet the characteristics listed below.											
Load Life	Capacitance change							al value				
		ion Factor		300% or less of initial specified value								
	Leakage Current initial specified value or less											
Shelf Life	After lea		ors under r	no load	at 105	°C for	1000 hc	ours, they	meet the	specified value for load life characteristics		
						room temperature, they meet the characteristics listed below.						
	•				Within ±10% of initial value							
Resistance to Soldering Heat		ion Factor			initial specified value or less							
	Leakage	e Current			initial	specifie	ed value	e or less				
Marking	Black pr	int on the ca	se top									

Ф8х10.5 ~ Ф16

# ■ DRAWING (Unit: mm)





<sup>\*1</sup> Voltage mark for 6.3V is 【6V】

<sup>\*2</sup> Applicable to Φ6.3x7.7

<sup>\*3</sup> Applicable to Ф8х10.5 ~ Ф10

<sup>\*4</sup> Applicable to Ф12.5 ~ Ф16

# KL Series

# **■** DIMENSIONS (Unit:mm)

ФDxL	4x5.8	5x5.8	6.3x5.8	6.3x7.7	8x10.5	10x10.5	10x13.5	12.5x13.5	12.5x16	16x16.5
Α	2.0	2.2	2.6	2.6	3.0	3.3	3.3	4.9	4.9	5.8
В	4.3	5.3	6.6	6.6	8.4	10.4	10.4	13.0	13.0	17.0
С	4.3	5.3	6.6	6.6	8.4	10.4	10.4	13.0	13.0	17.0
E±0.2	1.0	1.4	1.9	1.9	3.1	4.7	4.7	4.7	4.7	6.4
L	5.8	5.8	5.8	7.7	10.5	10.5	13.5	13.5	16.0	16.5
Н	0.5~0.8	0.5~0.8	0.5~0.8	0.5~0.8	0.8~1.2	0.8~1.2	0.8~1.2	0.8~1.2	0.8~1.2	0.8~1.2

## ■ DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

WV		6.3		10		1	6	25	
μF Code		0J		1A		1	С	1E	
10	100					4x5.8	18	5x5.8	27
22	220	4x5.8	22	5x5.8	30	5x5.8	30	6.3x5.8	44
33	330	5x5.8	35	5x5.8	36	6.3x5.8	48	6.3x5.8	50
47	470	5x5.8	38	6.3x5.8	50	6.3x5.8	50	6.3x7.7	63
100	101	6.3x5.8	69	6.3x7.7	81	6.3x7.7	81	8x10.5	116
150	151	6.3x7.7	85	8x10.5	125	8x10.5	125	10x10.5	320
220	221	6.3x7.7	120	8x10.5	141	10x10.5	216	10x10.5	320
330	331	8x10.5	290	10x10.5	290	10x10.5	290	10x10.5	320
470	471	10x10.5	320	10x10.5	320	10x10.5	320	12.5x13.5	400
470	471	10.10.5	320	10.10.5	320	10.10.5	320	(10x13.5)	(350)
680	681	10x10.5	320	10x10.5	320	10x13.5	420	12.5x13.5	415
1000	102	10x10.5	410	10x13.5	390	12.5x13.5	550	12.5x13.5	460
1500	152	10x13.5	450	12.5x13.5	480	12.5x13.5	650	12.5x16	700
2200	222	12.5x13.5	680	12.5x16	750	16x16.5	800		
2200	222	12.5815.5	000	(12.5x13.5)	(510)	10.10.5	500		
3300	332	12.5x16	850	16x16.5	800			Case size	Ripple current
5500	332	(12.5x13.5)	(800)	10.10.5	500				

44324344444444444444444444444444444444		6.	6.3		)	16	6		25	
μF	μF Code		0J		1A		<b>C</b>	1E		
0.10	0R1			4x5.8	1.0					
0.22	R22			4x5.8	2.6					
0.33	R33			4x5.8	3.2					
0.47	R47			4x5.8	5					
1	010			4x5.8	8					
2.2	2R2			4x5.8	12					
3.3	3R3			4x5.8	17			6.3x7.7	30	
4.7	4R7	4x5.8	16	5x5.8	22			8x10.5	50	
10	100	5x5.8	27	6.3x5.8	32	6.3x7.7	45	8x10.5	55	
22	22R	6.3x5.8	44	6.3x7.7	58	8x10.5	65	10x10.5	70	
33	33R	6.3x7.7	57	8x10.5	140	10x10.5	80	10x10.5	80	
47	47R	8x10.5	92	10x10.5	310	10x10.5	90	12.5x13.5	250	
47	4/K	0.010	92	10.10.5	310	10.10.5	90	(10x13.5)	(150)	
100	101	10x10.5	151	10x10.5	310	10x13.5	150	12.5x13.5	300	
								16x16.5	600	
150	151	10x10.5	290	10x10.5	310			(12.5x16)	(420)	
								(12.5x13.5)	(380)	
220	221	10x10.5	375	12.5x13.5	340	12.5x13.5	470			
220	221	10.00.5	3/3	(10x13.5)	(320)	12.5813.5	470			
330	331	12.5x13.5	380	12.5x16	600	16x16.5	650			
330	331	(10x13.5)	(375)	(12.5x13.5)	(500)	(12.5x16)	(550)			
470	471	12.5x13.5	520	16x16.5	700					
680	681	12.5x13.5	550							
1000	100	16x16.5	750					Coop size	Dinale current	
1000	102	(12.5x16)	(600)					Case size	Ripple current	

·Case size  $\Phi$ DxL (mm), ripple current (mA rms) at 105  $^{\circ}$ C, 120Hz

# KL

## Series

## **■ FREQUENCY COEFFICIENT OF ALLOWABLE RIPPLE CURRENT**

	50Hz	120Hz	300Hz	1KHz	10KHz~		
	Ф4~	Ф4~Ф10			1.17	1.36	1.50
Coefficient		~68µF	0.75	1.00	1.35	1.57	2.00
	Ф12.5~Ф16	100~470μF	0.80	1.00	1.23	1.34	1.50
		680~3300µF	0.85	1.00	1.10	1.13	1.15