

KL Series

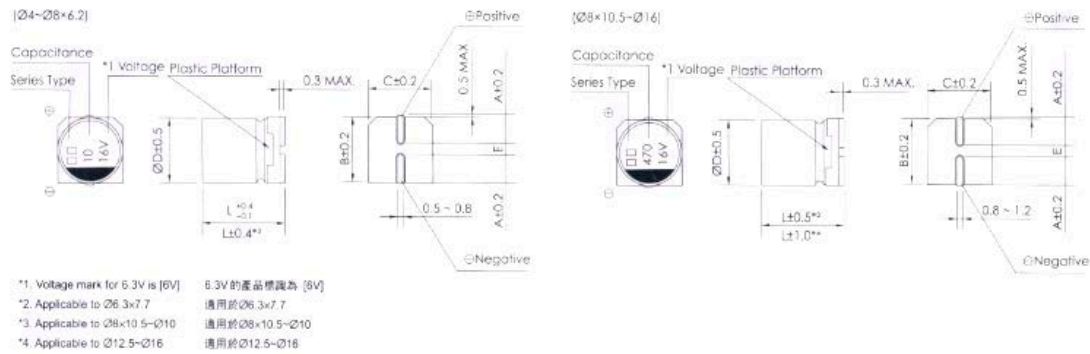
5000 HOURS LONG LIFE ASSURANCE

- Wide temperature range -55~+105°C
- Load life of 3000~5000 hours
- Comply with the RoHS directive

■ SPECIFICATIONS

Item	Characteristics								
Operating Temperature Range	-55 ~ +105°C								
Voltage Range	6.3 ~ 100 V								
Capacitance Range	0.1 ~ 1500μF								
Capacitance Tolerance	-20% ~ +20% at 20°C, 120Hz								
Leakage Current	Leakage current(Φ4~Φ10)≤0.01CV or 3uA, whichever is greater (after 2 minutes application of rated voltage) Leakage current(Φ12.5~Φ16)≤0.03CV or 4uA, whichever is greater (after 1 minute application of rated voltage)								
Dissipation Factor(tanδ)	Measurement frequency:120Hz, Temperature:20°C								
	Rated Voltage (V)	6.3	10	16	25	35	50~100		
	tan δ(max.)	Φ4~Φ10	0.28	0.24	0.20	0.16	0.13	0.12	
Stability at Low Temperature	Measurement frequency:120Hz								
	Rated Voltage (V)			6.3	10	16	25	35	50
	Impedance Ratio ZT/Z20(max.)	Φ4~Φ10	Z(-25°C) / Z(+20°C)	3	3	2	2	2	2
			Z(-55°C) / Z(+20°C)	8	5	4	3	3	3
		Φ12.5~Φ16	Z(-25°C) / Z(+20°C)	5	4	3	2	2	2
Z(-55°C) / Z(+20°C)			12	10	8	5	4	3	
Load Life	After 5000 hrs.(3000 hrs.forΦ4~Φ6.3×5.4&Φ8×6.2) application of the rated voltage at 105°C, they meet the characteristics listed below.								
	Capacitance Change	Within ±30% of initial value							
	Dissipation Factor	300% or less of initial specified value							
	Leakage Current	initial specified value or less							
Shelf Life	After leaving capacitors under no load at 105°C for 1000 hours, they meet the specified value for load life characteristics listed above.								
Resistance to Soldering Heat	After reflow soldering and restored at room temperature, they meet the characteristics listed below.								
	Capacitance Change	Within ±10% of initial value							
	Dissipation Factor	initial specified value or less							
	Leakage Current	initial specified value or less							
Marking	Black print on the case top.								

□ DRAWING (Unit: mm) 外形圖



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●DIMENSIONS(Unit:mm)

(ΦDxL)	4×5.4	5×5.4	6.3×5.4	6.3×7.7	8×6.2	8×10.5	10×10.5	10×13.5	12.5×13.5	12.5×16	16×16.5
A	1.8	2.1	2.4	2.4	3.3	2.9	3.2	3.2	4.7	4.7	5.5
B	4.3	5.3	6.6	6.6	8.3	8.3	10.3	10.3	13.0	13.0	17.0
C	4.3	5.3	6.6	6.6	8.3	8.3	10.3	10.3	13.0	13.0	17.0
E±0.2	1.0	1.3	2.2	2.2	3.1	3.1	4.4	4.4	4.4	4.4	6.7
L	5.4	5.4	5.4	7.7	6.2	10.5	10.5	13.5	13.5	16.0	16.5

■DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT & IMPEDANCE

WV(Vdc)		6.3		10		16		25	
		Case Size	Rated Ripple Current (mA)	Case Size	Rated Ripple Current (mA)	Case Size	Rated Ripple Current (mA)	Case Size	Rated Ripple Current (mA)
10	100					4×5.8	18	5×5.8	27
22	220		22	5×5.8	30	5×5.8	30	6.3×5.8	44
33	330	5×5.8	35	5×5.8	360 (315)	6.3×5.8	48	6.3×5.8	50
47	470	5×5.8	38	6.3×5.8	50	6.3×5.8	50	6.3×7.7 (8×6.2)	63
100	101	6.3×5.8	69	6.3×7.7 (8×6.2)	81	6.3×7.7 (8×6.2)	81	8×10.5	116
150	151	6.3×7.7 (8×6.2)	85	8×10.5	125	8×10.5	125	10×10.5	320
220	221	6.3×7.7 (8×6.2)	120	8×10.5	141	10×10.5	216	10×10.5	320
330	331	8×10.5	290	10×10.5	290	10×10.5	290	10×10.5	320
470	471	10×10.5	320	10×10.5	320	10×10.5	320	12.5×13.5 (10×13.5)	400 (350)
680	681	10×10.5	320	10×10.5	320	10×13.5	420	12.5×13.5	415
1000	102	10×10.5	410	10×13.5	390	12.5×13.5	550	12.5×13.5	460
1500	152	10×13.5	450	12.5×13.5	480	12.5×13.5	650	12.5×16	700
2200	222	12.5×13.5	680	12.5×16 (12.5×13.5)	750 (510)	16×16.5	800		
3300	332	12.5×16 (12.5×13.5)	850 (800)	16×16.5	800				

Rated Ripple Current (mA) at 105°C 120Hz

Case Size: ΦDxL (mm)