

LK Series

- Long life and high temperature, down size and high ripple current
- Load life 3,000 hours at 105°C
- RoHS Compliant

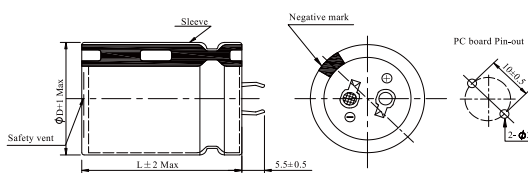


◆ SPECIFICATIONS

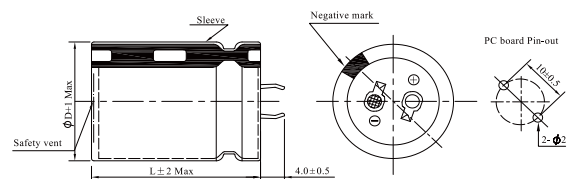
Item	Performance Characteristics																
Category Temperature Range	-25 ~ +105℃																
Working Voltage Range	200 ~ 450Vdc																
Capacitance Range	100 ~ 1,800μF																
Capacitance Tolerance	±20% (at 20℃ and 120Hz)																
Dissipation Factor (tanδ) (at 20℃, 120Hz)	<table><tr><td>Rated Voltage (V)</td><td>200</td><td>220</td><td>250</td><td>350</td><td>400</td><td>420</td><td>450</td></tr><tr><td>tanδ(Max)</td><td>0.15</td><td>0.15</td><td>0.15</td><td>0.15</td><td>0.15</td><td>0.15</td><td>0.15</td></tr></table>	Rated Voltage (V)	200	220	250	350	400	420	450	tanδ(Max)	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Rated Voltage (V)	200	220	250	350	400	420	450										
tanδ(Max)	0.15	0.15	0.15	0.15	0.15	0.15	0.15										
Leakage Current	$I \leq 3 \sqrt{CV}$ I: Leakage current (μA) C : Rated capacitance (μF) V : Rated voltage (V) Impress the rated voltage for 5 minutes																
Low Temperature Characteristics Impedance Ratio(MAX)	<table><tr><td>Rated Voltage (V)</td><td>200 ~ 250</td><td>350</td><td>400</td><td>420 ~ 450</td></tr><tr><td>Z(-25℃)/Z(+20℃)</td><td>4</td><td>4</td><td>4</td><td>8</td></tr></table> (at 120Hz)	Rated Voltage (V)	200 ~ 250	350	400	420 ~ 450	Z(-25℃)/Z(+20℃)	4	4	4	8						
Rated Voltage (V)	200 ~ 250	350	400	420 ~ 450													
Z(-25℃)/Z(+20℃)	4	4	4	8													
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjected to DC voltage with the rated ripple current is applied for 3,000 hours at 105℃. <table><tr><td>Capacitance change</td><td>≒ ±20% of the initial value</td></tr><tr><td>Dissipation factor(tanδ)</td><td>≒ 200% of the specified value</td></tr><tr><td>Leakage current</td><td>≒ specified value</td></tr></table>	Capacitance change	≒ ±20% of the initial value	Dissipation factor(tanδ)	≒ 200% of the specified value	Leakage current	≒ specified value										
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Leakage current	≒ specified value																
Shelf Life	The following requirements shall be satisfied when the capacitor are restored to 20℃ after the rated voltage applied for 1,000 hours at 105℃ without voltage applied. <table><tr><td>Capacitance change</td><td>≒ ±20% of the initial value</td></tr><tr><td>Dissipation factor(tanδ)</td><td>≒ 200% of the specified value</td></tr><tr><td>Leakage current</td><td>≒ 200% of the specified value</td></tr></table>	Capacitance change	≒ ±20% of the initial value	Dissipation factor(tanδ)	≒ 200% of the specified value	Leakage current	≒ 200% of the specified value										
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Dissipation factor(tanδ)	≒ 200% of the specified value																
Leakage current	≒ 200% of the specified value																

◆ DIMENSIONS (mm)

Terminal Code : 00 : Standard



Terminal Code :0D



◆ PART NUMBER SYSTEM(Example : 250V 560µF)

E	L	K	2	E	5	6	1	M	2	2	5	0	0	0	B
															Sleeve code(Black)
															Lead length code
															Lead forming Type code
															Size code(2250 : 22×50)
															Capacitance tolerance code(M: ±20%)
															Capacitance code (560µF)
															Voltage code(250V)
															Series code(LK)
															Category code(E)

LK Series

◆ Case size & Permissible rated ripple current: (mA rms) at 105°C / 120Hz.

Vdc ΦD μF	200								Vdc ΦD μF	220							
	Φ 22		Φ 25		Φ30		Φ35			Φ 22		Φ 25		Φ30		Φ35	
	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC		ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC
270	22×25	1100							220	22×25	1000						
330	22×30	1250	25×25	1250	30×20	1100			270	22×30	1150	25×25	1150				
390	22×30	1350	25×25	1350	30×20	1300			330	22×35	1250	25×30	1250	30×25	1250	35×20	1130
470	22×35	1500	25×30	1500	30×25	1500			390	22×35	1400	25×30	1400	30×25	1360	35×20	1230
560	22×40	1670	25×35	1670	30×30	1670			470	22×40	1510	25×35	1510	30×30	1510	35×25	1440
680	22×45	1780	25×40	1780	30×35	1780			560	22×45	1700	25×40	1700	30×35	1700	35×30	1700
820	22×50	2040	25×45	2040	30×40	2040	35×35	2040	680	22×50	1940	25×45	1940	30×40	1940	35×35	1940
1000			25×50	2200	30×45	2200	35×40	2200	820			25×50	2180	30×45	2180	35×40	2180
1200					30×50	2410	35×45	2410	1000					30×50	2500	35×45	2500
1500							35×50	2650	1200							35×50	2790
1800							35×55	2820	1500							35×55	2950

Vdc ΦD μF	250								Vdc ΦD μF	350							
	Φ 22		Φ 25		Φ30		Φ35			Φ 22		Φ 25		Φ30		Φ35	
	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC		ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC
180	22×25	780							100	22×30	640	25×25	640				
220	22×25	920	25×25	950	30×20	950			120	22×30	690	25×25	690				
270	22×30	1050	25×25	1050	30×20	1050			150	22×35	820	25×30	820	30×25	820	35×20	760
330	22×35	1300	25×30	1300	30×25	1300	35×20	1210	180	22×40	920	25×30	920	30×25	900	35×20	850
390	22×40	1450	25×35	1450	30×25	1450	35×25	1360	220	22×45	1050	25×35	1040	30×30	1020	35×25	1020
470	22×45	1650	25×35	1650	30×30	1650	35×25	1650	270	22×50	1160	25×40	1160	30×30	1160	35×25	1160
560	22×50	1760	25×40	1760	30×35	1760	35×30	1760	330			25×45	1290	30×35	1340	35×30	1220
680			25×45	1900	30×40	1900	35×35	1900	390			25×50	1510	30×40	1510	35×35	1470
820					30×45	2030	35×30	2030	470					30×45	1650	35×40	1650
1000					30×50	2190	35×45	2140	560					30×50	1850	35×45	1900
1200							35×50	2560	680							35×50	2150

Vdc ΦD μF	400								Vdc ΦD μF	420							
	Φ 22		Φ 25		Φ30		Φ35			Φ 22		Φ 25		Φ30		Φ35	
	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC		ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC
120	22×30	750	25×25	750	30×25	750	35×20	750	100	22×30	700	25×25	700	30×20	640		
150	22×35	880	25×30	880	30×25	880	35×20	820	120	22×35	750	25×30	750	30×25	730	35×20	670
180	22×40	980	25×30	980	30×30	980	35×25	980	150	22×40	880	25×35	880	30×25	750	35×20	720
220	22×45	1100	25×35	1100	30×30	1100	35×25	1100	180	22×45	950	25×40	950	30×30	950	35×25	950
270	22×50	1360	25×40	1180	30×35	1180	35×30	1220	220	22×50	1100	25×45	1100	30×35	1100	35×25	1100
330			25×45	1430	30×40	1430	35×3 5	1430	270			25×50	1220	30×40	1220	35×30	1220
390			25×50	1600	30×45	1600	35×40	1600	330					30×45	1450	35×35	1450
470					30×50	1820	35×40	1820	390					30×50	1550	35×40	1550
560					30×50	2030	35×45	2030	470							35×45	1900
680							35×50	2200	560							35×50	2150
820							35×55	2380	680							35×55	2270

LK Series

- ◆ Case size & Permissible rated ripple current: (mA rms) at 105°C / 120Hz.

Vdc ΦD μF	450							
	Φ 22		Φ 25		Φ30		Φ35	
	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC
100	22×30	690	25×25	690				
120	22×35	800	25×30	800	30×25	800	35×20	750
150	22×40	880	25×35	880	30×25	880	35×20	850
180	22×45	950	25×40	950	30×30	950	35×25	950
220	22×50	1080	25×45	1080	30×35	1080	35×25	1120
270			25×50	1260	30×40	1260	35×30	1260
330					30×45	1400	35×35	1400
390					30×50	1500	35×40	1500
470							35×45	1750
560							35×50	1910
680							35×55	2100

◆ RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Vdc	Frequency (Hz)				
	50	120	1K	10K	100K
200 ~ 250	0.81	1.00	1.32	1.45	1.50
350 ~ 450	0.77	1.00	1.30	1.41	1.43