

LXK General purpose Series

- Endurance : 85°C 2000 hours
- LXK type capacitors are combined with snap-lock terminals for easy to mount on P.C high ripple
- Ideally suitable for using in Switching Power Supplies and other industrial / commercial applications
- For detail specifications, please refer to Engineering Bulletin No. 2051

LH P77



Specifications

Item	Characteristics						
Category Temperature Range	-40~+85°C	-25~+85°C					
Rated Voltage Range	16 ~ 100V	160~ 450V					
Rate Capacitance Range	470 ~ 22000 μF	100 ~ 2200 μF					
Capacitance Tolerance	± 20 % at 120Hz , 25°C						
Leakage Current (MAX)	I=0.01CV or 2(mA) , whichever is smaller. (After 5 minutes application of rated voltage at 25°C)						
Dissipation Factor (MAX)	Capacitance Exceeds 1000uF The value of D.F(%) is increased by 2% for every addition of 1000uF						
	Rated voltage(V)	16	25~35	50~80	100~250	400 450	
	D.F(%)	30	25	20	15	20 20	
Low Temperature Stability Impedance Ratio (MAX)	Measurement frequency : 120Hz						
	Rated voltage(V)	16	25	35	50~63	80~100	160~400 450
	Z-25°C / Z+20°C	3	3	3	2	2	4 8
	Z-40°C / Z+20°C	12	10	8	6	5	
Endurance	After apply rated voltage with rated ripple current for 2000hrs at 85°C,the capacitors shall meet the following requirements.						
	Capacitance Change	Within ± 20 % of initial value					
	Dissipation Factor	200% or less of initial specified value					
	Leakage Current	initial specified value or less					
Shelf Life	The following specifications shall be satisfied when the capacitor are restored to 25°C after exposing then for 500 hours at 85 °C without voltage applied						
	Capacitance Change	Within ± 20 % of initial value					
	Dissipation Factor	200% or less of initial specified value					
	Leakage Current	200% or less of initial specified value					
Marking	Printed with white color letter on black sleeve.						

Multiplier for Ripple Current

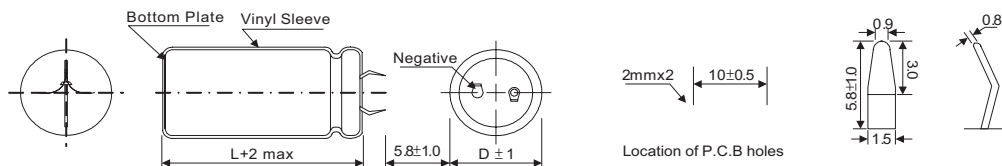
(1) Frequency coefficient

Frequency (Hz)	50	60	120	1K	10K~100K
16~100V	0.88	0.90	1.00	1.15	1.16
160~250V	0.75	0.78	1.00	1.16	1.23
315~450V	0.74	0.76	1.00	1.10	1.15

(2) Temperature coefficient

Temperature(°c)	60	70	85
Factor	1.42	1.30	1.00

Diagram of Dimensions




■ Dimensions, Rated Ripple Current

Capacitance (μ F)	Rated (Surge) Voltage							
	16 (20)		25 (32)		35 (44)		50 (63)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
1000							22x25	0.80
2200			22x25	0.90	22x25	1.04	22x30	1.15
							25x25	1.15
3300			22x25	1.16	22x30	1.30	22x40	1.45
					25x25	1.25	25x30	1.40
4700	22x25	1.10	22x30	1.30	22x40	1.70	25x45	2.08
			25x25	1.25	25x30	1.65	30x30	2.02
6800	22x30	1.50	22x40	1.70	22x50	2.05	30x40	2.53
	25x25	1.45	25x30	1.65	30x30	2.00	35x30	2.48
10000	22x40	1.90	22x50	2.20	30x40	2.55	30x50	2.84
	25x30	1.85	30x30	2.10	35x30	2.45	35x40	2.80
15000	22x50	2.30	30x40	2.85				
	30x30	2.30	35x30	2.80				
22000	30x40	2.90	35x40	3.40				
	35x30	2.90						

Capacitance (μ F)	Rated (Surge) Voltage							
	63(79)		80(100)		100(125)		160(200)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
330							22x25	1.30
							25x30	1.40
470			22x25	0.65	22x25	0.85	22x35	1.75
							25x30	1.75
680	22x25	0.80	22x25	0.95	22x30	1.15	22x40	2.15
					25x25	1.10	25x35	2.20
820							22x50	2.45
							30x30	2.45
1000	22x25	1.01	22x30	1.10	22x35	1.25	25x45	2.80
			25x25	1.00	25x30	1.20	30x35	2.80
2200	22x35	1.30	22x45	1.40	25x50	1.90	35x50	3.20
	25x30	1.25	30x30	1.30	35x30	1.80		
3300	22x50	1.70	25x50	1.95				
	30x30	1.65	35x30	1.90				
4700	25x50	2.22	30x50	2.65				
	35x30	2.17	35x40	2.60				
6800	30x50	2.73						
	35x40	2.68						
10000	35x50	3.00						

☆ Size: D \varnothing x L (mm) ☆ Ripple Current : A/rms. 85°C, 120Hz

■ Dimensions, Rated Ripple Current

Capacitance (μF)	Rated (Surge) Voltage							
	200 (250)		250 (300)		400 (450)		450 (500)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
100					22x30	0.65	22x40	0.44
					25x25	0.65	25x35	0.44
120					22x35	0.75	22x45	0.51
					25x30	0.75	30x30	0.51
150					22x40	0.90	25x45	0.59
					25x30	0.85	35x30	0.58
220	22x25	1.10	22x30	1.15	22x50	1.15	30x45	0.76
			25x25	1.15	30x35	1.15	35x35	0.74
330	22x30	1.40	22x40	1.45	30x45	1.50	35x45	1.00
	25x25	1.40	25x30	1.45	35x35	1.50		
470	22x40	1.80	22x50	1.90	35x35	2.00		
	25x35	1.80	25x40	1.90				
680	25x40	2.25	30x40	2.40				
	30x35	2.25	35x30	2.35				
820	25x50	2.25	30x45	2.75				
	35x30	2.50	35x35	2.75				
1000	30x45	2.95	35x40	2.75				
	35x35	2.90						

☆ Size: $D\varnothing \times L$ (mm) ☆ Ripple Current : A/rms. 85°C, 120Hz