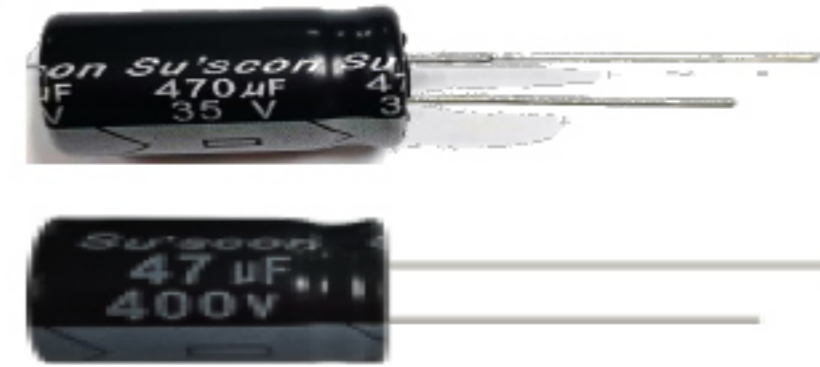


LK series

- -55 °C low temperature resistant products
- Suitable for LED, intelligent electronic meter and outdoor power supply
- RoHS Compliance
- -55°C耐低溫產品
- 適用於LED、智能電子電表及戶外電源等



SPECIFICATIONS

Items 項目	Characteristics 特性		
Capacitance Tolerance 靜電容量誤差	±20% (120Hz , 20°C)		
Operating Temperature Range 適用溫度範圍	- 55 ~ +105°C		
Rated Voltage Range 額定電壓範圍	400~450VDC		
Leakage Current 洩漏電流	$I \leq 0.03CV + 20 (\mu A)$ (After 3 minutes application of DC rated voltage, at 20 °C)		
Dissipation Factor 散逸因素(tan δ)	Measurement Frequency:120Hz. Temperature: 20°C		
	Rated Voltage(V)	400	450
	tan δ (Max)	0.20	0.20
	When nominal capacitance over 1000 μ F, tan δ shall be added 0.02 to the listed value with increase of every 1000 μ F .		
Low Temperature Stability 低溫特性 Impedance Ratio(Max) 阻抗比率(最大值)	Measurement Frequency: 120Hz.		
	Rated Voltage(V)	400	450
	Z(-25°C)/Z(20°C)	2	2
	Z(-40°C)/Z(20°C)	3	3
Load Life 負荷壽命	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied for 2,000 hours at 105°C.		
	Capacitance Change	within ±20% of Initial Value	
	tan δ	200% or less of Initial Specified Value	
Shelf Life 放置壽命	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000hours 105°C without voltage applied. Before the measurement. The Capacitance shall be preconditioned by applying voltage according to them 4.1 of JIS C5101-4.		
	Capacitance Change	within ±20% of Initial Value	
	tan δ	200% or less of Initial Specified Value	
	Leakage Current	Initial Specified Value or less	
Standards 參照標準	JIS C 5101-4-1 (IEC 60384)		

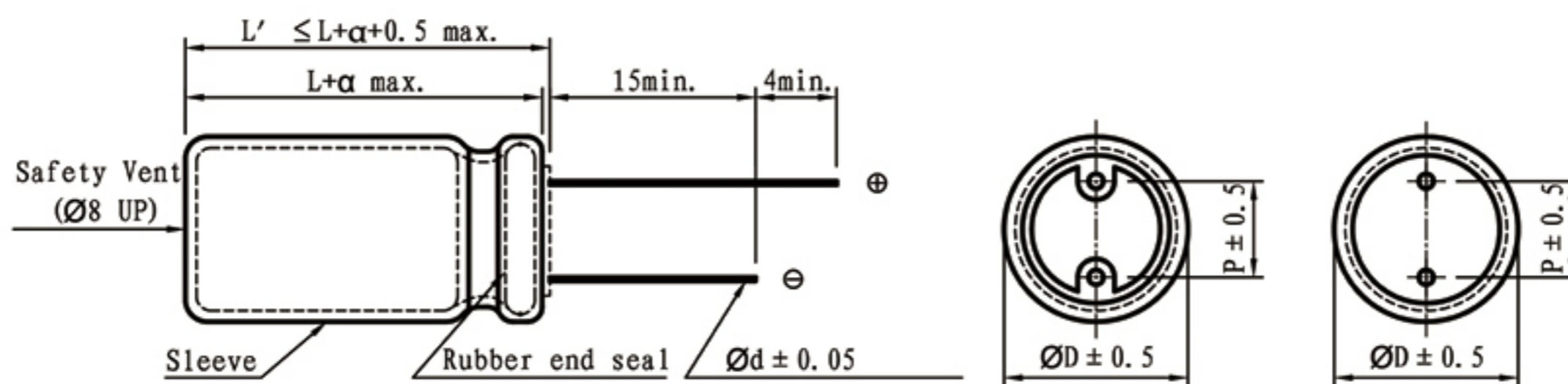
Frequency Coefficient of Permissible Ripple Current

Capacitance (μ F)	Frequency (Hz)				
	120	10K	30K	50K	100K
10 ~ 82	1.00	1.75	2.25	2.23	2.50
100 ~ 150	1.00	1.67	2.05	2.15	2.25

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise. when long life performance is required in actual use. The rms ripple current has to be reduced.

LK series

DIMENSIONS(mm)



ϕD	10	13	16	18
P	5.0	5.0	7.5	7.5
ϕd	0.6	0.6	0.8	0.8

α	(L < 16) 1.0 (L > 16) 2.0
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STANDARD RATINGS

DxL(mm), R.C.(mA rms) at 105°C 120 Hz.

Cap (μF)	V	Item	400		450			
			D x L	R.C.		D x L	R.C.	
				100Hz	120KHz		100Hz	120KHz
10		10x16	150	375	10x20	105	263	
15		10x20	170	425	13x21	130	325	
22		13x21	250	625	13x25	210	525	
33		13x25	350	875	16x22	270	675	
47		16x22	480	1200	18x26	450	1125	
56		16x25	500	1250	18x26	550	1375	
68		18x26	550	1375	18x32	600	1500	
82		18x26	600	1500	18x32	650	1625	
100		18x32	680	1530	18x35	750	1688	
120		18x35	750	1688	18x40	800	1800	
150		18x40	800	1800	18x45	900	2025	

※ 13mm may be replaced by 12.5mm upon customer's request.

LK