

# SK series

- 105°C 2000hours, standard product.
- RoHS Compliance
- 105°C 2000小時標準品



## 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	-40 ~ +105°C				-40 ~ +105°C				-25 ~ +105°C					
Rated Voltage Range 額定電壓範圍	6.3 ~ 100VDC				160 ~ 250VDC				350 ~ 500VDC					
Leakage Current 洩漏電流	I ≤ 0.01CV or 3 (µA) which is greater.( After 2 minutes application of DC rated voltage, at 20 °C)							I ≤ 0.03CV +20 (µA) ( 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)	6.3	10	16	25	35	50	63	80	100	130	160~250	350~500	600
	tan δ(Max)	0.24	0.20	0.16	0.15	0.12	0.10	0.09	0.08	0.08	0.08	0.20	0.25	0.25
When nominal capacitance over 1000µF, tanδ shall be added 0.02 to the listed value with increase of every 1000µF .														
Low Temperature Stability 低溫特性 Impedance Ratio(Max) 阻抗比率(最大值)	Measurement Frequency: 120Hz.													
	Rated oltage(V)	6.3	10	16	25	35	50~100	160~250	350~400	450~500				
	Z(-25°C)/(20°C)	5	4	3	2	2	2	3	6	15				
	Z(-40°C)/(20°C)	10	8	6	4	3	3	4	-	-				
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												
	Leakage Current	Initial Specified Value or less												
Shelf Life 放置壽命	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours 105°C without voltage applied. Before the measurement, the capacitor 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 (IEC 60384)													

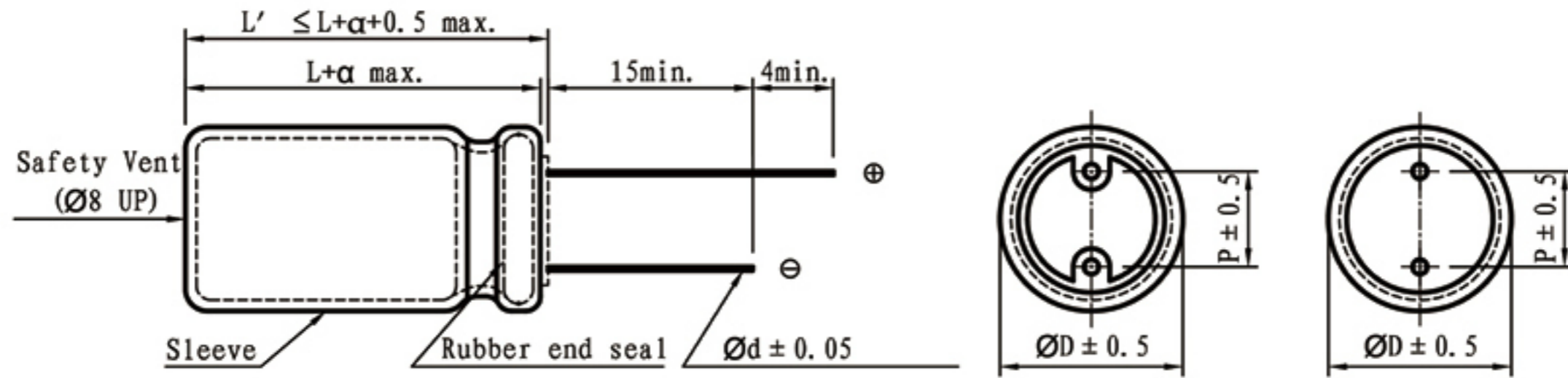
## Frequency Coefficient of Permissible Ripple Current

Rated Voltage (V)	Capacitance (µF)	Frequency (Hz)			
		50	120	1K	≥20K
≤ 100	< 100	0.75	1.00	1.40	1.50
	100 ~ 470	0.75	1.00	1.20	1.30
	> 470	0.85	1.00	1.10	1.15
≥ 160	0.47 ~ 470	0.75	1.00	1.10	1.50

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.

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**DIMENSIONS(mm)**



φD	5	6.3	8	10	13	14.5	16	18	22	25
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5	7.5	10	12.5
φd	0.5	0.5	0.5	0.6	0.6	0.8	0.8	0.8	0.8	1.0

**STANDARD RATINGS**

D×L(mm) ; R.C.(mA rms) at 105°C 120Hz.

Cap (μF)	V	6.3		10		16		25		35		50		63		100	
		Item	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L
0.1~0.47												5x11	11	5x11	12	5x11	17
1												5x11	15	5x11	17	5x11	20
2.2												5x11	24	5x11	25	5x11	30
3.3												5x11	30	5x11	31	5x11	36
4.7								5x11	30	5x11	31	5x11	36	5x11	37	5x11	44
6.8								5x11	35	5x11	37	5x11	46	5x11	51	5x11	45
10						5x11	42	5x11	43	5x11	47	5x11	54	5x11	58	6.3x11	75
22		5x11	54	5x11	59	5x11	63	5x11	65	5x11	75	5x11	83	6.3x11	109	8x12	112
33		5x11	66	5x11	77	5x11	79	5x11	83	5x11	91	6.3x11	107	8x12	121	8x12	133
47		5x11	78	5x11	87	5x11	94	5x11	97	6.3x11	116	6.3x11	145	8x12	163	10x13	170
56		5x11	90	5x11	100	5x11	105	5x11	109	6.3x11	127	6.3x11	151	8x12	172	10x16	187
68		5x11	102	5x11	119	5x11	145	5x11	151	6.3x11	169	6.3x11	196	8x12	206	10x16	238
100		5x11	111	5x11	139	6.3x11	151	6.3x11	163	8x12	194	8x14	242	10x13	254	10x20	315
220		5x11	175	6.3x11	212	8x12	237	8x12	290	10x13	332	10x16	363	10x20	436	13x25	581
330		6.3x11	233	6.3x11	272	8x12	321	10x13	369	10x16	484	10x20	514	13x21	666	16x26	714
470		6.3x11	266	8x12	299	8x14	381	8x16	436	10x20	581	13x21	762	13x25	847	16x32	968
								10x16	460								
560		8x12	272	8x12	306	8x14	387	10x16	448	10x20	629	13x21	774	13x25	871	16x36	1012
680		8x12	278	8x12	319	8x16	424	10x20	581	13x21	702	13x25	799	16x26	1004	18x32	1210
1000		8x14	484	10x13	586	10x16	617	10x20	750	13x21	908	13x25	1089	16x32	1210	18x35	1573
1500		8x20	545	10x20	592	10x20	641	13x21	787	13x25	1041	16x32	1452	18x32	1718		
2200		10x20	774	10x20	918	13x21	1004	13x25	1132	16x26	1343	16x36	1609	18x35	1997		
3300		10x20	908	13x21	1091	13x25	1222	16x26	1428	16x36	1730	18x35	1997	22x40	2347		
4700		13x21	1162	13x25	1306	16x26	1464	16x32	1718	18x35	2057	22x40	2541	22x50	2965		
6800		13x25	1385	16x26	1770	16x36	1863	18x35	2202	22x40	2602	22x50	3025				
10000		16x26	1730	16x36	2236	18x35	2335	22x40	2589	22x50	3207						
15000		16x36	2214	18x35	2808	22x40	2928	22x50	3328								
22000		18x40	2771	22x40	3514	22x50	3630										

Cap (μF)	V	160		200		250		350		400		450		500	
		Item	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L
2.2		6.3x11	35	6.3x11	35	8x12	72	8x12	56	10x13	54	10x16	75		
3.3		8x12	72	8x12	72	8x12	78	10x13	85	10x13	69	10x16	102	10x20	42
4.7		8x12	75	8x12	75	10x13	110	10x13	90	10x16	120	10x20	130	10x20	56
6.8		8x12	78	8x12	78	10x13	120	10x13	95	10x16	125	13x21	155	13x21	105
10		10x13	92	10x16	145	10x16	145	10x20	150	10x20	145	13x21	165	13x21	110
22		10x16	145	10x20	210	13x21	245	13x25	225	13x25	252	16x26	360	16x26	250
33		10x20	210	13x21	245	13x21	255	13x25	245	16x26	380	16x26	380	16x32	280
47		13x21	245	13x25	330	13x25	350	16x26	405	16x26	395	16x32	450	18x35	320
68		13x21	255	13x25	340	16x26	540	16x32	450	16x32	475	18x32	585	18x45	360
82		13x25	350	13x25	350	16x26	550	16x32	480	18x26	480	18x35	650		
100		16x26	530	16x26	540	16x32	630	18x32	580	18x32	580	18x40	720		
120		16x26	540	16x26	550	16x32	650	18x35	650	18x35	650	18x40	750		
150		16x26	550	16x32	650	18x32	730	18x40	750	18x40	720	22x45	785		
220		16x36	720	18x32	750	22x35	950								
330		18x35	810	22x35	860										
470		18x40	1050	22x40	1100										

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



# SK series

### SLIM TYPE

- 105°C high-temperature and high voltage 400~500V, life 2000hrs.
- Specially Size, 8~16mm diameter.
- For LCD-TV and LCD-Monitor power.
- RoHS Compliance.
- 105°C 耐高溫標準品，高壓400~500V，壽命2000小時。
- 特殊專用尺寸，直徑8~16mm。
- 使用於LCD TV與LCD Monitor電源應用。



### SPECIFICATIONS

D×L(mm) ; R.C.(mA rms) at 105°C 120Hz.

Cap (µF)	V Item	400		450		500	
		D x L	R.C.	D x L	R.C.	D x L	R.C.
22		8x50	158	8x50	168	13x40	158
		10x30	150	10x35	153		
33		8x61	210	8x61	218	13x45	162
		10x40	192	10x45	198		
39		8x61	258	8x61	287	14.5x45	160
		10x45	235	10x50	250		
		13x35	250	13x40	265		
47		10x50	285	10x50	335	14.5x45	163
		13x40	282	13x45	305		
		14.5x30	278	14.5x30	290		
53		10x50	305	10x50	400	16x50	178
68		13x45	340	14.5x40	460		
		14.5x30	330	16x35	490		
82		13x50	365	14.5x50	460		
		14.5x40	385	16x40	490		
100		14.5x45	468	14.5x50	620		
				16x50	640		
120		14.5x50	550	16x50	650		

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