

SEK General purpose Series

- Endurance : 105°C 1000 hours
- For general purpose coupling, decoupling, by pass, and filtering circuit in entertainment electronics
- For detail specifications, please refer to Engineering Bulletin No. 2030

SH P34
Long Life
SEK



Specifications

Item	Characteristics									
Category Temperature Range	-40~+105°C		-40~+105°C			-25~+105°C				
Rated Voltage Range	6.3 ~ 100V		160 ~ 250V			350 ~ 450V				
Rated Capacitance Range	0.47 ~ 15000µF		0.47 ~ 470µF			0.47 ~ 150µF				
Capacitance Tolerance	± 20 % at 120Hz, 25°C									
Leakage Current (MAX)	I=0.01CV + 3(µA)					I=0.03CV+10(µA)				
	whichever is greater.(After 2 minutes application of rated voltage at 25°C)									
Dissipation Factor (MAX)	Measurement frequency : 120Hz, Temperature : 25°C									
	Rated voltage (V)	6.3	10	16	25	35	50	63~100	160~250	350~450
	D.F (%)	26	22	18	16	14	12	10	15	20
Low Temperature Stability Impedance Ratio (MAX)	Measurement frequency : 120Hz									
	Rated voltage (V)	6.3	10	16	25	35~100	160~250	315~350	400~450	
	Z-25°C / Z+20°C	8	6	5	3	3	7	10	15	
	Z-40°C / Z+20°C	10	8	6	4	3	7	—	—	
Endurance	After apply rated voltage with rated ripple current for 1000hrs at 105°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	After leaving capacitors under no load at 105°C for 500 hours.									
	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 brown sleeve.									

Multiplier for Ripple Current

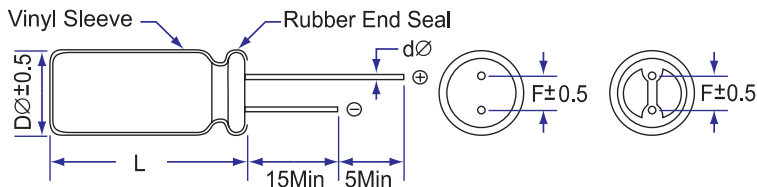
(1) Frequency coefficient

Frequency (Hz)	120	300	1K	10K~100K
6.3 ~ 100V Below ~ 68 µF	1.00	1.20	1.30	1.45
6.3 ~ 100V 100 ~ 680 µF	1.00	1.10	1.15	1.25
6.3 ~ 100V 1000 ~ 22000 µF	1.00	1.05	1.10	1.15
160 ~ 450V ALL Cap (µF)	1.00	1.05	1.10	1.50

(2) Temperature coefficient

Temperature (°C)	65	85	105
Factor	1.80	1.40	1.00

Diagram of Dimensions



$L \leq 12$ $L+1.5\text{max}$
 $13 \leq L \leq 15$ $L+1.0$
 $L \leq 16$ $L-0.5$
 $L+2.0\text{max}$

D	5.0	6.0	8.0	10.0	12.0	13.0	16.0	18.0	22.0
F	2.0	2.5	3.5	5.0		7.5		10.0	
d	0.5			0.6		0.8		0.8	

SEK General purpose Series

■ Dimensions, Rated Ripple Current

Capacitance (μF)	Rated (Surge) Voltage														
	6.3 (8)		10 (13)		16 (20)		25 (32)		35 (44)		50 (63)		63 (79)		
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	
0.47											5x11	7	5x11	8	
1.0											5x11	12	5x11	13	
2.2											5x11	18	5x11	20	
3.3											5x11	25	5x11	27	
4.7							5x11	20	5x11	25	5x11	30	5x11	34	
6.8							5x11	25	5x11	30	5x11	32	5x11	37	
10					5x11	25	5x11	30	5x11	40	5x11	50	5x11	55	
15					5x11	40	5x11	45	5x11	50	5x11	60	5x11	65	
22			5x11	45	5x11	55	5x11	60	5x11	65	5x11	75	6x11	90	
33			5x11	60	5x11	70	5x11	75	5x11	85	6x11	105	6x11	110	
													8x11	120	
47	5x11	60	5x11	75	5x11	85	5x11	90	5x11	95	6x11	100	8x11	155	
										6x11	115	8x11	125		
68	5x11	75	5x11	80	5x11	100	6x11	125	8x11	130	8x11	159	10x12	198	
100	5x11	100	5x11	110	5x11	110	6x11	145	6x11	150	8x11	160	8x15	230	
					6x11	135			8x11	190	10x12	210	10x12	260	
150	5x11	120	5x11	110	8x11	180	8x11	200	10x12	240	10x12	289	10x15	330	
			6x11	130											
220	5x11	140	6x11	180	6x11	180	8x11	200	8x11	230	10x12	340	10x15	400	
	6x11	165			8x11	235	10x12	250	8x15	280	10x15	400	10x19	460	
									10x12	315					
330	6x11	160	6x11	205	8x11	285	8x11	265	8x15	345	10x15	450	10x19	520	
	8x11	200	8x11	255			8x15	320	8x20	420	10x19	535	13x20	650	
							10x12	355	10x12	380					
									10x15	440					
470	6x11	220	6x11	245	8x11	310	8x15	365	10x15	415	10x19	580	13x20	700	
	8x11	280	8x11	305	8x15	360	10x12	400	10x19	490	13x20	730	13x25	800	
					10x12	395	10x15	470	13x20	580					
680	8x11	255	8x11	335	10x12	455	10x19	650	13x20	730	13x25	860	13x25	840	
	10x12	320	8x15	385	10x15	530							16x25	1000	
			10x12	420											
1000	8x11	370	8x11	390	8x20	600	10x19	680	13x20	850	13x25	930	16x25	1020	
	10x12	470	8x15	450	10x15	590	12x20	775	13x25	995	16x25	1110	16x32	1200	
			10x12	490	10x19	700	13x20	855							
			10x15	570											
1500	10x15	600	10x19	750	10x19	680	13x25	1020	13x25	935	16x32	1350	16x32	1300	
					13x20	860			16x25	1110			16x36	1450	
2200	10x19	740	10x19	800	10x25	895	13x25	1030	16x25	1230	16x36	1360	18x36	1455	
	13x20	930	13x20	1010	12x25	1040	16x25	1230	16x32	1450	18x36	1530			
					13x20	990									
					13x25	1150									
3300	10x19	880	10x25	950	13x25	1140	13x25	1035	16x36	1470	18x36	1540			
	13x20	1100	10x30	1090	16x25	1350	16x25	1230	18x36	1660	18x40	1700			
			13x20	1050			16x32	1450							
			13x25	1220											
4700	13x25	1100	13x25	1190	16x25	1330	16x32	1420	18x36	1580	22x35	1900			
	16x25	1320	16x25	1410	16x32	1560	18x36	1690	18x40	1750					
6800	13x25	1250	16x25	1370	16x36	1590	18x36	1850	22x40	1885					
	16x25	1490	16x32	1610	16x40	1670									
					18x36	1790									
10000	16x25	1560	16x36	1760	18x36	2100									
	16x32	1830	18x36	1980											
15000	18x36	2280	18x40	1960											

☆ Size: D∅ x L (mm) ☆ Ripple Current : mA/rms. 105°C, 120Hz

SEK General purpose Series

■ Dimensions, Rated Ripple Current

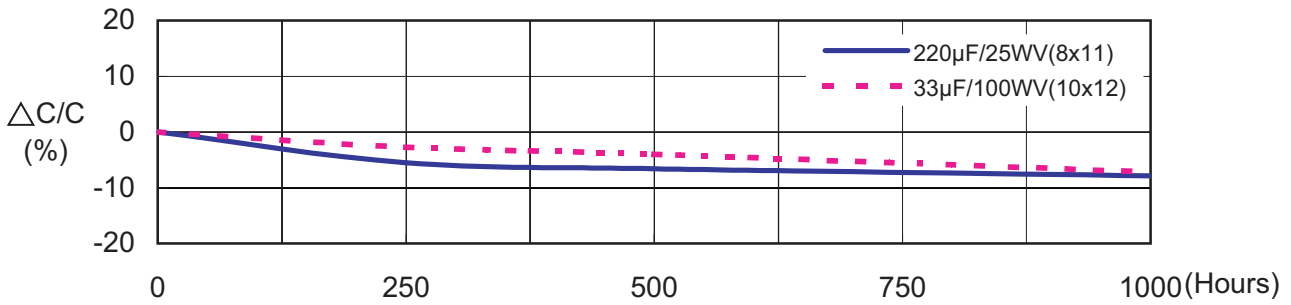
Capacitance (µF)	Rated (Surge) Voltage													
	100 (125)		160 (200)		200 (250)		250 (300)		350 (400)		400 (450)		450 (500)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.47	5X11	10	5x11	12	5x11	14	5x11	14	5x11	14	6x11	14	6x11	14
1.0	5x11	15	5x11	17	5x11	19	6x11	19	6x11	20	6x11	16	8x11	20
											8x11	20		
2.2	5x11	22	6x11	25	6x11	22	6x11	23	8x11	35	8x11	28	10x12	35
					8x11	28	8x11	29			10x12	35		
3.3	5x11	29	6x11	30	6x11	32	8x11	33	8x11	37	8x11	38	10x15	54
			8x11	36	8x11	40	10x12	42	10x12	47	10x12	50		
4.7	5x11	37	6x11	34	8x11	40	8x11	41	10x12	47	8x15	45	10x15	60
			8x11	43	10x12	50	10x12	52	10x15	55	10x12	49		
6.8	5x11	46	10x12	54	10x12	60	8x15	57	10x15	65	10x15	60	10x19	80
							10x12	62			10x19	72		
10	5x11	55	8x11	56	10x12	69	10x15	88	10x15	95	10x15	65	13x20	85
	6x11	65	10x12	70	10x15	80					10x19	77	13x25	100
15											13x20	97		
	8x11	82	10x15	90	10x15	110	10x15	120	10x19	140	10x19	100	16x25	160
22											13x20	125		
											13x25	150		
33	8x11	115	8x20	125	10x15	140	10x19	155	13x20	165	13x20	150	13x25	125
			10x15	130							13x25	175	16x25	150
47													16x32	180
	8x11	120	10x19	180	10x19	190	13x20	170	13x25	220	13x25	190	16x25	190
68	10x12	180	13x20	270	13x20	240	13x25	330	16x25	340	16x25	280	16x36	300
	10x15	210			13x25	290					16x32	315	18x40	360
100											16x36	350		
											18x20	275		
120											18x25	300		
	10x15	241	13x25	300	13x25	330	16x25	350	16x32	370	16x32	320	18x32	305
150											16x36	335	22x40	400
											18x25	305		
220	10x19	385	13x25	330	13x25	340	16x32	430	18x36	460	16x36	425		
			16x25	400	16x25	410					18x32	430		
330											18x36	480		
											18x36	480		
470	13x25	414	16x32	435	16x36	450	18x40	460	22x40	480	22x40	450		
	13x25	590	16x32	550	18x32	520	22x40	680						
680			16x36	620	18x36	580								
					18x40	650								
1000	13x25	600	18x36	770	18x36	705								
	16x25	720	18x40	850	18x40	780								
1500					22x40	920								
	16x25	740	22x40	980										
2000	16x32	875												
	18x40	1200												
3000	18x40	1340												
	22x40	1500												

☆ Size: Dø x L (mm) ☆ Ripple Current :mA/rms. 105°C ,120Hz

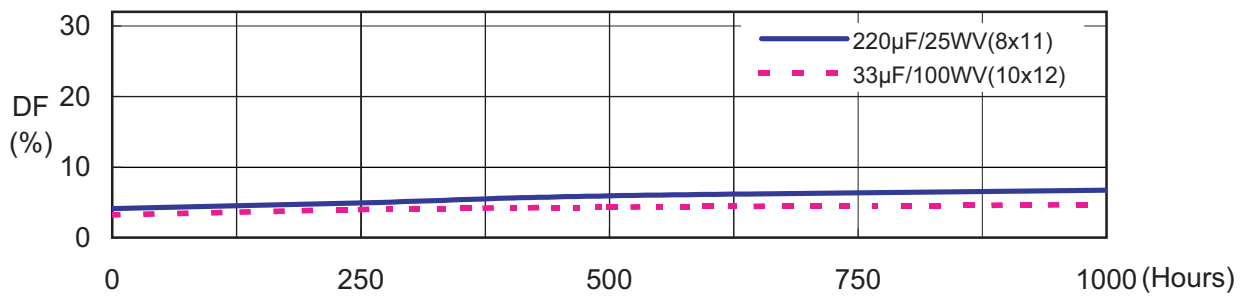
SEK General purpose Series

■ **Endurance**

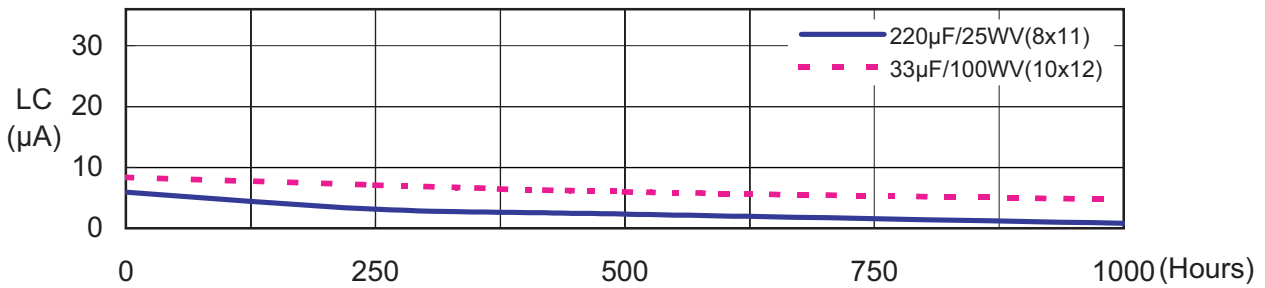
● **Capacitance Change**



● **Dissipation Factor Change**

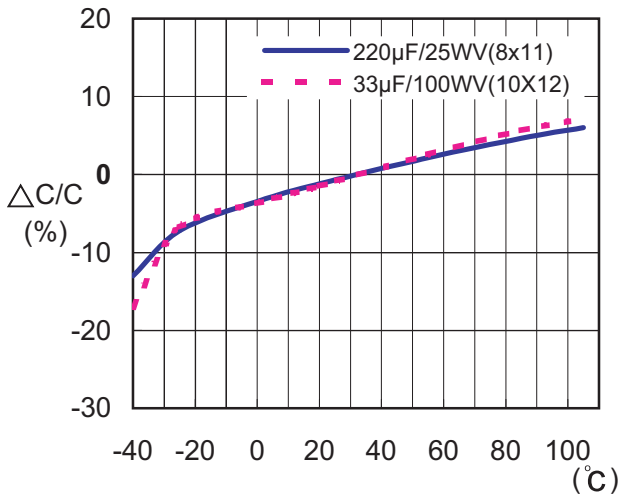


● **Leakage Current Change**



■ **Temperature Characteristics**

● **Capacitance Change**



● **Dissipation Factor Change**

