

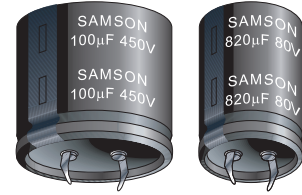
SAMSON

SKP Series

Lug/Snap-in Terminal Type(挿入/自立型), Long Life(長壽命)

FEATURES

1. Highly reliable capacitors that withstand under high ripple current.
2. Two or three dimensions with same ratings.
3. Aluminum case designed explosion-proof vent.
4. Best for switching power supplies.
5. Load life: 3000 hrs.



SPECIFICATIONS

Item	Performance Characteristics								
Operating Temperature Range	-40 to +105°C				-25 to +105°C				
Rated Working Voltage Range	10 to 100V				160 to 450V				
Nominal Capacitance Range	47 to 56000µF								
Capacitance Tolerance	±20% (120Hz, +20°C)								
Leakage Current	$I \leq 3 \sqrt{CV}$ (µA) after 5 minutes application of rated working voltage at +20°C								
Dissipation Factor tan δ (120Hz, +20°C)	Working Voltage (V)	10	16	25	35	50	63	80	100
	tan δ (max.)	0.55	0.50	0.45	0.40	0.35	0.30	0.25	0.20
	Working Voltage (V)	160 ~ 200	250	315 ~ 450					
	tan δ (max.)	0.15	0.15	0.25					
For capacitance value > 33000µF, add following calculated value: $\frac{(\text{rated capacitance}) - 33000\mu\text{F}}{10000\mu\text{F}} \times 0.1$									
Low Temperature Characteristics	Impedance ratio max. at 120Hz								
	Working Voltage (V)	10	16	25	35	50	63	80	100
	Z-25°C / Z+20°C	6	6	6	6	4	3	3	3
	Z-40°C / Z+20°C	15	15	15	10	8	6	6	6
	Working Voltage (V)	160	200	250	315	400	450		
Z-25°C / Z+20°C	8	8	8	8	8	8			
Z-40°C / Z+20°C	--	--	--	--	--	--			
High Temperature Loading	Test conditions				Post test requirements at +20°C				
	After 3000 hours application of rated voltage at +105°C the capacitor shall meet the following limits				Leakage current : ≤ Initial specified value				
					Cap. change : within ±20% of initial measured value				
Shelf Life	At 105°C no voltage applied after 1000 hours the capacitors shall meet the following limits								
	Leakage current : ≤ Initial specified value								
	Cap. change : within ±15% of initial measured value								
Others	tan δ : ≤ 150% of initial specified value								
	JIS C - 5141 JIS C - 5102								

RIPPLE CURRENT MULTIPLIER

Temperature Coefficient					Frequency Coefficient				
1) Maximum rms ripple current at 120Hz, 105°C are given in the table.					3) Frequency multiplying factor:				
2) Temperature multiplying factor:					If capacitors are used to filter circuits at a frequency other than 120Hz, the maximum ripple current must be multiplied by the figure shown in the table below.				
Where capacitors are operated at temperature other than 105°C, the maximum ripple current must be multiplied by the figure shown in the table below.									
Temperature(°C)	20 ~ 45	65	85	105	Freq.(Hz)	60	120	1K	10 ~ 50K
Factor	2	1.89	1.52	1.0	10 ~ 100V	0.9	1.0	1.15	1.25
					160 ~ 250V	0.8	1.0	1.25	1.47
					315 ~ 450V	0.8	1.0	1.30	1.47

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DIMENSIONS											
Voltage (Code)		10V		16V		25V		35V			
Cap.(μ F)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current		
2700	278							20 x 25	1.29		
3300	338							20 x 30	1.57		
								22 x 25	1.45		
3900	398					20 x 25	1.58	20 x 35	1.78		
								22 x 30	1.69		
4700	478					20 x 30	1.65	22 x 40	2.02		
								22 x 35	2.02		
								25 x 25	1.62		
5600	568			20 x 25	1.68	20 x 35	1.85	22 x 35	2.13		
								22 x 30	2.00		
6800	688	20 x 25	1.31	20 x 30	1.80	20 x 40	2.11	22 x 40	2.41		
								22 x 35	2.31		
								25 x 25	2.31		
								30 x 25	2.31		
8200	828	20 x 30	1.59	20 x 35	2.08	25 x 30	2.34	22 x 50	2.85		
								22 x 30	2.00		
								30 x 25	2.75		
10000	109	20 x 30	1.88	20 x 40	2.15	22 x 45	2.65	25 x 45	3.05		
								22 x 30	2.10		
								25 x 25	2.05		
12000	129	20 x 35	2.18	22 x 35	2.31	22 x 50	2.80	30 x 35	3.05		
								22 x 30	2.10		
								25 x 30	2.30		
								25 x 25	1.94		
15000	159	20 x 40	2.27	22 x 40	2.68	25 x 45	3.27	25 x 50	3.37		
								22 x 35	2.23		
								25 x 35	2.58		
								25 x 30	2.10		
18000	189	22 x 40	2.41	22 x 50	3.20	30 x 40	3.56	30 x 40	4.37		
								25 x 30	2.34		
								30 x 25	2.25		
22000	229	22 x 45	2.58	25 x 45	3.36	30 x 40	4.04	35 x 40	4.37		
										25 x 35	2.54
										30 x 30	2.50
27000	279	22 x 50	3.17	25 x 50	3.85	30 x 35	3.30	35 x 45	4.74		
										25 x 40	3.07
										30 x 30	2.95
33000	339	25 x 45	3.39	30 x 40	3.80	35 x 45	4.74	35 x 50	5.50		
										30 x 35	3.33
										35 x 30	3.21
39000	399	30 x 40	3.70	30 x 45	4.30						
										35 x 35	3.68
47000	479	30 x 45	4.22	30 x 50	4.81						
										35 x 40	4.16
56000	569	35 x 50	5.00								

Maximum Allowable Ripple Current (A rms) at 105°C 120Hz

Case Size ϕ D x L(mm)

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DIMENSIONS									
Voltage (Code)		50V		63V		80V		100V	
Cap.(μ F)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
560	567							20 x 25	0.95
680	687							20 x 30	1.15
								22 x 25	1.09
820	827					20 x 25	1.04	20 x 35	1.31
								22 x 30	1.32
1000	108			20 x 25	1.10	20 x 30	1.24	20 x 35	1.43
						22 x 25	1.19	22 x 30	1.47
								25 x 25	1.45
1200	128			20 x 30	1.20	20 x 35	1.43	20 x 40	1.61
				22 x 25	1.20	22 x 30	1.44	22 x 35	1.69
								25 x 30	1.68
1500	158	20 x 25	1.15	20 x 35	1.47	20 x 35	1.57	22 x 40	1.97
				22 x 30	1.47	22 x 30	1.59	25 x 35	1.98
						25 x 25	1.59	30 x 25	1.95
1800	188	20 x 30	1.39	20 x 35	1.58	20 x 40	1.77	22 x 45	2.23
				22 x 30	1.58	22 x 35	1.79	25 x 40	2.20
		22 x 25	1.34	25 x 25	1.52	25 x 30	1.71	30 x 30	2.20
2200	228	20 x 35	1.60	20 x 40	1.80	22 x 40	2.03	25 x 45	2.53
				22 x 35	1.82	25 x 35	1.98	30 x 35	2.55
		22 x 30	1.60	25 x 30	1.75	30 x 25	1.98	35 x 30	2.50
2700	278	20 x 35	1.73	22 x 40	2.07	22 x 45	2.39	25 x 50	2.82
		22 x 30	1.70	25 x 35	2.11	25 x 40	2.35	30 x 40	2.86
		25 x 25	1.70	30 x 25	1.72	30 x 30	2.35	35 x 35	2.89
3300	338	20 x 40	1.97	22 x 45	2.33	25 x 45	2.64	30 x 45	3.30
		22 x 35	1.97	25 x 35	2.27	30 x 35	2.61	35 x 35	3.25
		25 x 30	1.88	30 x 30	2.24	35 x 30	2.47		
3900	398	22 x 40	2.22	25 x 40	2.51	25 x 50	2.92	30 x 50	3.60
		25 x 30	2.20			30 x 40	2.82	35 x 40	3.67
		30 x 25	1.95	30 x 35	2.55	35 x 30	2.97		
4700	478	22 x 45	2.43	25 x 50	2.91	30 x 45	3.34	35 x 45	3.80
		25 x 35	2.43	30 x 40	2.86				
		30 x 30	2.25	35 x 30	2.80	35 x 35	3.38		
5600	568	22 x 50	2.75	30 x 40	3.22	30 x 50	3.80	35 x 50	4.05
		25 x 40	2.72			35 x 40	3.80		
		30 x 30	2.64	35 x 35	3.20				
6800	688	25 x 45	3.30	30 x 50	3.65	35 x 45	3.90		
		30 x 35	3.30	35 x 40	3.65				
		35 x 30	3.25						
8200	828	30 x 40	3.60	35 x 45	4.04	35 x 50	4.20		
		35 x 35	3.60						
10000	109	30 x 50	4.05	35 x 50	4.48				
		35 x 40	4.04						
12000	129	35 x 45	4.56						
15000	159	35 x 50	4.77						

Maximum Allowable Ripple Current (A rms) at 105°C 120Hz

Case Size ϕ D x L(mm)

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DIMENSIONS									
Voltage (Code)		160V		180V		200V		220V	
Cap.(μ F)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
180	187							20 x 25	0.81
220	227			20 x 25	0.81	20 x 25	0.83	20 x 30	0.94
270	277	20 x 25	0.87	20 x 30	0.95	20 x 30	0.97	20 x 35	1.10
				22 x 25	0.97	22 x 25	0.99	22 x 30	1.09
330	337	20 x 30	1.02	20 x 35	1.09	20 x 35	1.17	20 x 40	1.18
		22 x 25	1.03	22 x 30	1.13	22 x 30	1.20	22 x 35	1.24
				25 x 25	1.20	25 x 25	1.14		
390	397	20 x 35	1.15	20 x 35	1.28	20 x 40	1.27	20 x 45	1.33
		22 x 30	1.17	22 x 30	1.32	22 x 35	1.30	22 x 35	1.30
				25 x 25	1.33	25 x 30	1.34	25 x 25	1.26
470	477	20 x 40	1.25	20 x 40	1.34	22 x 40	1.44	22 x 40	1.41
		22 x 30	1.28	22 x 35	1.39	25 x 30	1.44	25 x 30	1.39
		25 x 25	1.29	25 x 30	1.43	30 x 25	1.48	30 x 25	1.37
560	567	22 x 35	1.45	22 x 40	1.56	22 x 45	1.60	22 x 45	1.60
				25 x 30	1.53	25 x 35	1.60	25 x 35	1.56
		25 x 30	1.49	30 x 25	1.56	30 x 30	1.60	30 x 30	1.61
				35 x 25	1.52				
680	687	22 x 40	1.64	22 x 45	1.76	22 x 50	1.75	25 x 40	1.75
		25 x 35	1.70	25 x 35	1.76	25 x 40	1.76	30 x 35	1.76
		30 x 25	1.63	30 x 30	1.74	30 x 30	1.74	35 x 30	1.72
820	827	22 x 45	1.85	22 x 50	1.97	25 x 45	2.10	25 x 45	1.97
		25 x 40	1.92	25 x 40	1.99	30 x 35	2.11	30 x 40	2.06
		30 x 30	1.91	30 x 30	1.93	35 x 30	2.10	35 x 30	1.95
1000	108	25 x 45	2.17	25 x 45	2.24	25 x 50	2.36	30 x 45	2.44
		30 x 35	2.19	30 x 35	2.24	30 x 40	2.40		
				35 x 30	2.20	35 x 35	2.30	35 x 35	2.20
1200	128	25 x 50	2.43	30 x 40	2.53	30 x 45	2.69	35 x 40	2.37
		30 x 40	2.48			35 x 35	2.53		
		35 x 30	2.25	35 x 35	2.54				
1500	158	30 x 45	2.82	30 x 50	3.03	35 x 40	2.97	35 x 45	2.64
		35 x 35	2.62	35 x 40	2.91				
1800	188	30 x 50	3.13	35 x 45	3.25	35 x 45	3.45		
		35 x 40	2.97						
2200	228	35 x 45	3.34	35 x 50	3.62				

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DIMENSIONS									
Voltage (Code)		250V		315V		350V		385V	
Cap.(μ F)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
56	566							20 x 25	0.37
68	686					20 x 25	0.41	20 x 30	0.44
								22 x 25	0.45
82	826			20 x 25	0.39	20 x 30	0.45	20 x 30	0.50
								22 x 30	0.52
100	107			20 x 30	0.45	20 x 30	0.51	20 x 35	0.56
						22 x 25	0.53	22 x 30	0.58
								25 x 25	0.57
120	127			20 x 30	0.54	20 x 35	0.59	20 x 40	0.66
				22 x 25	0.56	22 x 30	0.61	22 x 35	0.68
						25 x 25	0.62	25 x 30	0.68
150	157	20 x 25	0.71	20 x 35	0.64	20 x 40	0.70	22 x 40	0.79
				22 x 30	0.66	22 x 35	0.73	25 x 30	0.78
				25 x 25	0.65	25 x 30	0.73	30 x 25	0.75
180	187	20 x 30	0.82	20 x 40	0.75	22 x 40	0.83	22 x 45	0.89
		22 x 25	0.84	22 x 35	0.78	25 x 30	0.80	25 x 35	0.86
				25 x 30	0.71	30 x 25	0.81	30 x 30	0.88
220	227	20 x 35	0.95	22 x 40	0.89	22 x 45	0.94	22 x 50	1.01
		22 x 30	0.97	25 x 30	0.85	25 x 35	0.92	25 x 40	1.00
		25 x 25	0.99	30 x 25	0.83	30 x 30	0.98	30 x 30	1.00
270	277	20 x 40	1.08	22 x 45	1.01	22 x 50	1.07	25 x 45	1.13
		22 x 35	1.11	25 x 35	0.98	25 x 40	1.05	30 x 40	1.14
		25 x 30	1.15	30 x 30	1.01	30 x 30	1.03	35 x 30	1.10
330	337	22 x 40	1.26	22 x 50	1.14	25 x 45	1.24	30 x 45	1.31
		25 x 30	1.26	25 x 40	1.12	30 x 35	1.24	35 x 35	1.32
		30 x 25	1.31	30 x 35	1.21	35 x 30	1.18		
390	397	22 x 45	1.41	25 x 45	1.31	25 x 50	1.38	30 x 50	1.48
		25 x 35	1.42	30 x 35	1.30	30 x 40	1.39	35 x 40	1.48
		30 x 30	1.50	35 x 30	1.23	35 x 35	1.39		
470	477	22 x 50	1.58	30 x 40	1.53	30 x 45	1.57	35 x 45	1.76
		25 x 40	1.61	35 x 35	1.47	35 x 35	1.50		
		30 x 30	1.61						
560	567	25 x 45	1.80	30 x 45	1.65	30 x 50	1.75	35 x 50	1.95
		30 x 35	1.84	35 x 40	1.66	35 x 40	1.69		
680	687	25 x 50	2.03	35 x 45	1.96	35 x 45	1.96		
		30 x 40	2.09						
		35 x 30	1.96						
820	827	30 x 45	2.35	35 x 50	2.19				
		35 x 35	2.26						
1000	108	30 x 50	2.64						
		35 x 40	2.57						
1200	128	35 x 45	2.88						

Maximum Allowable Ripple Current (A rms) at 105°C 120Hz

Case Size ϕ D x L(mm)

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DIMENSIONS									
Voltage (Code)		400V		420V		450V			
Cap.(μ F)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current		
47	476					20 x 25	0.36		
56	566	20 x 25	0.40	20 x 25	0.40	20 x 30	0.41		
						22 x 25	0.42		
68	686	20 x 30	0.48	20 x 30	0.48	20 x 35	0.47		
		22 x 25	0.49	22 x 25	0.50	22 x 30	0.50		
						25 x 25	0.50		
82	826	20 x 30	0.54	20 x 35	0.53	20 x 40	0.53		
		22 x 30	0.56	22 x 30	0.56	22 x 35	0.56		
				25 x 25	0.56	25 x 30	0.57		
100	107	20 x 35	0.60	20 x 35	0.58	22 x 40	0.64		
		22 x 30	0.62	22 x 30	0.63	25 x 30	0.63		
		25 x 25	0.61	25 x 25	0.63	30 x 25	0.67		
120	127	20 x 40	0.71	20 x 45	0.71	22 x 45	0.72		
		22 x 35	0.73	22 x 35	0.73	25 x 35	0.71		
		25 x 30	0.73	25 x 30	0.72	30 x 30	0.77		
				30 x 25	0.75				
150	157	22 x 40	0.85	22 x 45	0.86	22 x 50	0.80		
		25 x 35	0.85	25 x 35	0.83	25 x 40	0.82		
		30 x 25	0.79	30 x 25	0.83	30 x 30	0.85		
180	187	22 x 45	0.95	22 x 50	1.02	25 x 45	0.93		
		25 x 35	0.92	25 x 40	0.94				
		30 x 30	0.95	30 x 30	0.95	30 x 35	0.97		
				35 x 25	0.90				
220	227	22 x 50	1.08	25 x 45	1.13	25 x 50	1.05		
		25 x 40	1.05	30 x 35	1.09	30 x 40	1.10		
		30 x 35	1.24	35 x 30	1.05	35 x 30	1.01		
270	277	25 x 50	1.29	25 x 50	1.37	30 x 45	1.25		
		30 x 40	1.30	30 x 40	1.25				
		35 x 30	1.18	35 x 35	1.25	35 x 35	1.26		
330	337	30 x 45	1.47	30 x 45	1.49	30 x 50	1.42		
		35 x 35	1.41	35 x 35	1.42	35 x 40	1.44		
390	397	30 x 50	1.64	30 x 50	1.67	35 x 45	1.61		
		35 x 40	1.59	35 x 40	1.61				
470	477	35 x 45	1.87	35 x 45	1.86	35 x 50	1.80		
560	567	35 x 50	2.09						

Maximum Allowable Ripple Current (A rms) at 105°C 120Hz

Case Size ϕ D x L(mm)