

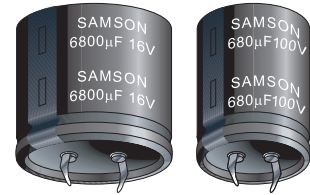
SAMSON

SEP Series

Lug/Snap-in Terminal Type(插入/自立型), For Audio(音響電容)

FEATURES

- 1.High ripple current.
- 2.Two or three dimensions with same ratings.
- 3.Aluminum case designed explosn-proof vent.
- 4.Best for switching power supplies.
- 5.Load life with ripple current:105℃ 5000hrs



SPECIFICATIONS

Item	Performance Characteristics						
Operating Temperature Range	-40 to +105°C			-25°C to +105°C			
Rated Working Voltage Range	10 to 100V			160 to 450V			
Nominal Capacitance Range	82 to 47000µF						
Capacitance Tolerance	±20% (120Hz, +20°C)						
Leakage Current	$1 \leq 3\sqrt{CV}$ (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	63-100
	tan δ (max.)	0.6	0.45	0.30	0.25	0.20	0.15
	For capacitance value > 1000µF, add 0.02 per another 1000						
Surge Voltage	Working Voltage (V)	160 ~ 400	420 ~ 450				
	Surge Voltage (V)	0.15	0.20				
	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	63-100
	Z-25°C / Z+20°C	6	6	6	6	4	3
	Z-40°C / Z+20°C	15	15	15	10	8	6
	Working Voltage (V)	160	250	315	350	400	400-450
Z-25°C / Z+20°C	8	8	8	8	8	8	
High Temperature Loading	Test conditions After 5000hours application of rated voltage with the max.ripple current at+105°C and then being stabilized the capacitor shall meet the following limits						
	Cap. change : within ±20% of initial value						
tan δ : ≤ 200% of initial value							
Leakage current : ≤ Initial specified value							
Shelf Life	At+105°C no voltage application after 1000 hours then being stabilized at 20°C the capacitor shall meet the following limits						
	Cap. change : within ±20% of initial value						
tan δ : ≤ 200% of initial value							
Leakage current : ≤ Initial specified value							
Others	JIS C - 5141 JIS C - 5102						

SEP Series

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

DIMENSIONS									
Voltage (Code)		10V		16V		25V		35V	
Cap.(μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
2200	228							22 x 25	1.10
3300	338							22 x 30	1.42
								25 x 25	1.41
3900	398					22 x 25	1.31	22 x 35	1.58
								25 x 30	1.58
4700	478					22 x 30	1.51	22 x 40	1.78
						25 x 25	1.51	30 x 25	1.77
5600	568			22 x 25	1.44	22 x 35	1.7	25 x 35	1.98
								30 x 30	1.98
								35 x 25	2.03
6800	688	22 x 25	1.30	22 x 30	1.66	22 x 40	1.92	22 x 50	2.26
				25 x 25	1.66	25 x 30	1.87	25 x 40	2.24
						30 x 25	1.90		
8200	828			22 x 35	1.87	25 x 35	2.14	25 x 50	2.57
						20 x 30	2.15	30 x 35	2.50
						35 x 25	2.19	35 x 30	2.55
10000	109	22 x 30	1.65	22 x 40	2.12	22 x 50	2.45	30 x 40	2.86
		25 x 25	1.64	25 x 30	2.07	25 x 40	2.43	35 x 35	2.88
				30 x 25	2.11				
12000	129	22 x 35	1.85	25 x 35	2.37	25 x 50	2.78	30 x 50	3.32
		25 x 30	1.85	30 x 30	2.37	30 x 35	2.70	35 x 40	3.30
		30 x 25	1.89	35 x 25	2.42	35 x 30	2.76		
15000	159	22 x 40	2.12	22 x 50	2.74	30 x 40	3.13		
		25 x 35	2.16	25 x 40	2.71	35 x 35	3.16		
18000	189	22 x 50	2.45	25 x 50	3.11	35 x 50	3.64	35 x 50	4.29
		25 x 40	2.43	30 x 35	3.02	35 x 40	3.61		
		30 x 30	2.37	35 x 30	3.09				
		35 x 25	2.42						
22000	229	30 x 35	2.73	30 x 40	3.46				
		35 x 30	2.79	35 x 35	3.49				
27000	279	25 x 50	3.11	30 x 50	4.07	35 x 50	4.70		
		30 x 40	3.13	35 x 40	4.04				
33000	339	35 x 35	3.49						
39000	399	30 x 50	3.99	35 x 50	5.16				
		35 x 40	3.96						
47000	479	35 x 50	4.62						

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

Case Size φD x L(mm)

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SEP Series

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

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						
390	397							22 x 25	0.78						
560	567							22 x 30	0.99						
								25 x 25	0.98						
680	687					22 x 25	0.97	22 x 35	1.12						
820	827					22 x 30	1.12	22 x 40	1.26						
								25 x 30	1.23						
								30 x 25	1.25						
1000	108			22 x 25	1.00			25 x 35	1.41						
								30 x 30	1.42						
								35 x 25	1.45						
1200	128			22 x 30	1.15			22 x 50	1.60						
								25 x 40	1.59						
								30 x 35	1.61						
1500	158	22 x 25	1.02	22 x 35	1.32	25 x 35	1.62	25 x 50	1.86						
								30 x 40	1.87						
								35 x 30	1.85						
1800	188	22 x 30	1.17	22 x 40	1.49	22 x 50	1.84	35 x 35	2.07						
								25 x 25	1.17	25 x 30	1.45	22 x 40	1.82		
										30 x 25	1.48	30 x 30	1.78		
												35 x 25	1.82		
2200	228	22 x 35	1.33	25 x 35	1.67	25 x 50	2.11	30 x 50	2.40						
								30 x 30	1.68	30 x 35	2.05	35 x 40	2.39		
								35 x 25	1.71	35 x 30	2.09				
2700	278	22 x 40	1.51	22 x 50	1.92	30 x 40	2.35	35 x 50	2.81						
		25 x 30	1.47	25 x 40	1.90	35 x 35	2.37								
		30 x 25	1.50	30 x 35	1.93										
3300	338	25 x 35	1.70	25 x 50	2.20	30 x 50	2.75								
		30 x 30	1.70	35 x 30	2.18	35 x 40	2.73								
		35 x 25	1.74												
3900	398	22 x 50	1.91	30 x 40	2.41										
		25 x 40	1.89	35 x 35	2.43										
4700	478	30 x 35	2.11	30 x 50	2.80	35 x 50	3.46								
		35 x 30	2.16	35 x 40	2.78										
5600	568	25 x 50	2.38												
		30 x 40	2.39												
		35 x 35	2.41												
6800	688	30 x 50	2.79	35 x 50	3.55										
		35 x 40	2.78												
8200	828														
10000	109	35 x 50	3.57												

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

Case Size ϕ D x L(mm)

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

DIMENSIONS									
Voltage (Code)		160V		200V		250V		315V	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
150	157							22 x 25	0.80
180	187							22 x 30	0.92
								25 x 25	0.94
220	227					22 x 25	1.01	22 x 35	1.04
								30 x 25	1.17
270	277			22 x 25	1.10	22 x 30	1.20	22 x 40	1.18
								25 x 30	1.19
330	337					25 x 25	1.32	22 x 45	1.33
								25 x 35	1.37
								30 x 30	1.40
								35 x 25	1.49
390	397	22 x 25	1.32	22 x 30	1.38	22 x 35	1.44	25 x 50	1.48
				25 x 25	1.39	25 x 30	1.43	25 x 40	1.52
						30 x 25	1.51		
470	477			22 x 35	1.55	22 x 40	1.62	25 x 45	1.70
								30 x 35	1.71
								35 x 30	1.82
560	567	22 x 30	1.66	32 x 40	1.73	22 x 45	1.80	25 x 50	1.88
		25 x 25	1.68	25 x 30	1.71	25 x 35	1.78	30 x 40	1.92
				30 x 25	1.78	30 x 30	1.83	35 x 35	2.00
						35 x 25	1.91		
680	687	25 x 35	1.87	22 x 45	1.81	25 x 40	2.00	30 x 50	2.21
		25 x 30	1.88	25 x 35	1.87	30 x 35	2.06	35 x 40	2.29
		30 x 25	1.96	30 x 30	1.98	35 x 30	2.15		
				35 x 25	2.10				
820	827	22 x 40	2.09	22 x 50	2.18	25 x 50	2.28	35 x 45	2.57
				25 x 40	2.09	30 x 40	2.33		
				30 x 35	2.22	35 x 35	2.38		
1000	108	22 x 45	2.36	25 x 45	2.35	30 x 50	2.68	35 x 50	2.89
		25 x 35	2.38	30 x 40	2.53	35 x 40	2.72		
		30 x 30	2.40	35 x 30	2.61				
		35 x 25	2.55						
1200	128	25 x 40	2.66	30 x 45	2.84	35 x 45	3.05		
		30 x 35	2.69	35 x 35	2.88				
		35 x 30	2.86						
1500	158	25 x 50	3.08	35 x 40	3.34	35 x 50	3.49		
		30 x 45	3.17						
		35 x 35	3.22						
1800	188	30 x 50	3.53	35 x 45	3.74				
		35 x 40	3.66						
2200	228	35 x 45	4.14						
2700	278	35 x 50	4.68						

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

Case Size φD x L(mm)

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SEP Series

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

DIMENSIONS											
Voltage (Code)		350V		400V		420V		450V			
Cap.(μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current		
82	826							22 x 25	0.59		
100	107			22 x 25	0.66	22 x 25	0.66	22 x 30	0.69		
								25 x 25	0.70		
120	127	22 x 25	0.72	22 x 30	0.75	22 x 30	0.75	22 x 35	0.77		
						25 x 25	0.77				
150	157	22 x 30	0.84	22 x 35	0.86	22 x 35	0.86	22 x 40	0.88		
				22 x 25	0.86			22 x 30	0.88		
				22 x 40	0.96	22 x 40	0.96	30 x 25	0.93		
180	187	25 x 25	0.94					22 x 50	1.01		
				25 x 30	0.97	25 x 30	0.97	25 x 40	1.03		
				30 x 25	1.02	30 x 25	1.02	30 x 30	1.03		
220	227							35 x 25	1.10		
				22 x 35	1.04	22 x 45	1.09	22 x 50	1.11	25 x 45	1.16
				25 x 30	1.07	25 x 35	1.12	25 x 40	1.14	30 x 35	1.17
				30 x 25	1.13			30 x 30	1.14	35 x 30	1.24
270	277							35 x 25	1.22		
				22 x 45	1.20	22 x 50	1.23	25 x 45	1.29	25 x 50	1.31
				25 x 35	1.24	25 x 40	1.26	30 x 35	1.30	30 x 40	1.33
				30 x 30	1.27	30 x 30	1.27	35 x 30	1.38	35 x 35	1.39
330	337			35 x 25	1.35						
				22 x 50	1.36	25 x 50	1.44	25 x 50	1.44	30 x 45	1.51
				25 x 40	1.39	30x 35	1.43	30 x 40	1.48		
				30 x 35	1.43	35 x30	1.52	35 x 35	1.54		
390	397			35 x 35	1.52						
				25 x 45	1.55	30 x 40	1.60	30 x 45	1.64	30 x 50	1.67
				30 x 40	1.60	35 x 35	1.67	35 x 40	1.73	35 x 40	1.73
470	477			35 x 30	1.66						
				25 x 50	1.72	30 x 45	1.81	30 x 50	1.84	35 x 50	1.98
				30 x 45	1.81	35 x 40	1.90	35 x 45	1.94		
560	567			35 x 35	1.83						
				30 x 50	2.00	35 x 45	2.12	35 x 50	2.17		
680	687	35 x 45	2.34	35 x 50	2.39						
820	827	35 x 50	2.62								

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

Case Size φD x L(mm)

SEP Large Can Aluminum Electrolytic Capacitors