

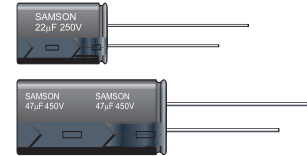
SAMSON

SRB Series

+130°C, High Temperature(高温度) , High Ripple Current(高紋波), Long Life Assurance(長壽命)

FEATURES

1. High temperature, high ripple current at high frequency, load life of 3000~4000 hours at 130°C.
2. Specially designed for electronic ballast and energy-save lamp.



SPECIFICATIONS

Item	Performance Characteristics									
Operating Temperature Range	-40 to +130°C	-25 to +130°C								
Rated Working Voltage Range	160 to 400V	450V								
Nominal Capacitance Range	1 to 220µF									
Capacitance Tolerance	±20% (120Hz, +20°C)									
Leakage Current	I ≤ 0.02CV+25 (µA) after 2 minutes application of rated working voltage at +20°C									
Dissipation Factor tan δ (120Hz, +20°C)	Working Voltage (V)	160	200	250	350	400	450			
	tan δ (max.)	0.15	0.15	0.15	0.20	0.20	0.20			
Low Temperature Characteristics	Impedance ratio max. at 120Hz									
	Working Voltage (V)	160	200	250	350	400	450			
	Z-25°C / Z+20°C	3	3	3	5	5	6			
	Z-40°C / Z+20°C	6	6	6	6	6	6			
High Temperature Loading	Test conditions				Post test requirements at +20°C					
	Duration	: 4000 hours (φ≤12.5:3000 hours)				Leakage current : ≤ Initial specified value				
	Ambient temp.	: +130°C				Cap. change : within ±30% of initial measured value				
	Applied voltage	: Rated DC working voltage with rated ripple current				tan δ : ≤ 300% of initial specified value				
Shelf Life	After leaving capacitors under no load at 105°C for 1000hours, capacitors shall meet specified value for load life characteristics listed above.									
Others	JIS C-5101 (IEC 60384)									

CASE SIZE TABLE

	φD	8	10	12.5	16	18					
	P	3.5	5.0	5.0	7.5	7.5					
	φd	0.5	0.6	0.6	0.8	0.8					
	α	(L < 20) 1.5					(L ≥ 20) 2.0				
	β	(L < 20) 0.5					(L ≥ 20) 1.0				

RIPPLE CURRENT MULTIPLIER

Frequency Coefficient		120	1K	10K	100K
Cap(µF)	Freq.(Hz)				
~ 180		0.40	0.75	0.90	1.00
220		0.50	0.85	0.94	1.00

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STANDARD RATINGS									
Voltage (Code)		160V		200V		250V		350V	
Cap.(μ F)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
1	105							8 x 12	51
1.5	155							10 x 12.5	56
1.8	185							10 x 16	62
2.2	225							10 x 16	70
2.8	285			8 x 12	64	10 x 12.5	72	10 x 16	76
3.3	335	8 x 12	70	8 x 12	73	10 x 12.5	80	10 x 16	84
4.7	475	10 x 12.5	76	10 x 12.5	80	10 x 16	88	10 x 20	105
5.6	565	8 x 16	81	8 x 16	86	10 x 16	88	12.5 x 20	121
6.8	685	8 x 16	88	8 x 16	94	10 x 16	96	12.5 x 20	176
8.2	825	10 x 16	96	10 x 16	100	10 x 16	104	12.5 x 25	192
10	106	10 x 16	200	10 x 16	200	10 x 16	224	12.5 x 25	224
15	156	10 x 16	336	10 x 20	336	12.5 x 20	360	12.5 x 25	240
22	226	10 x 20	400	12.5 x 20	400	12.5 x 20	480	16 x 25	252
33	336	12.5 x 20	400	12.5 x 25	480	12.5 x 25	480	16 x 30	360
47	476	12.5 x 25	528	12.5 x 25	528	16 x 25	518	16 x 35	475
68	686	16 x 25	547	16 x 25	547	18 x 30	862	18 x 35	612
100	107	16 x 25	806	18 x 30	806	18 x 30	864		
150	157	18 x 30	979	18 x 35	979				
220	227	18 x 35	1008						

Maximum Allowable Ripple Current (mA rms) at 130°C 100KHz

Case Size ϕ D x L(mm)

Voltage (Code)		400V		450V					
Cap.(μ F)	Code	Case Size	Ripple Current	Case Size	Ripple Current				
1	105	10 x 12.5	58	8 x 16	64				
1.5	155	10 x 12.5	67	10 x 16	70				
1.8	185	10 x 16	72	10 x 16	74				
2.2	225	10 x 16	74	10 x 16	77				
2.8	285	10 x 16	80	10 x 16	80				
3.3	335	10 x 16	88	10 x 16	88				
4.7	475	10 x 20	104	10 x 20	104				
5.6	565	12.5 x 20	112	12.5 x 20	112				
6.8	685	12.5 x 20	176	12.5 x 20	120				
8.2	825	12.5 x 20	208	12.5 x 20	224				
10	106	12.5 x 20	224	12.5 x 20	256				
15	156	12.5 x 25	256	12.5 x 25	336				

Maximum Allowable Ripple Current (mA rms) at 130°C 100KHz

Case Size ϕ D x L(mm)