



SR SERIES ALUMINUM ELECTROLYTIC CAPACITORS

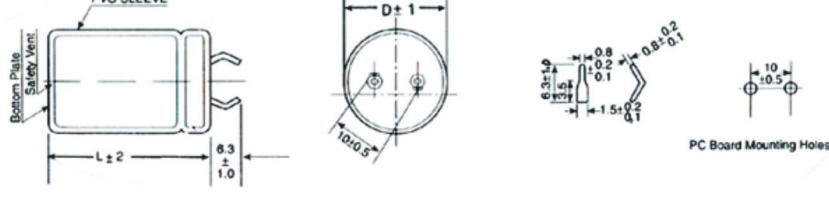
Features

- Load life of 2,000 hours at 105℃
- Snap-in terminal type, wide temperature range.
- Suitable for switching power supplies.
- Having safety vents.

Characteristics

Operating temperature range	-40~+105℃(for 10V to 250V) -25~+105℃(for 315V to 450V)									
Rated voltage range	10~450V									
Capacitance range	39~82,000 μ F									
Capacitance tolerance (at20℃, 120Hz)	±20%(M)									
Leakage current(I) (at20℃)	After 2 minute application of rated voltage. I≤0.02CV or 5mA, whichever is smaller. Where C: Nominal capacitance in μ F,V: Rated voltage in V.									
Dissipation factor(Tan δ) (at 20℃, 120Hz)	W.V.(V)	10	16	25	35	50	63~100	160~200	250~450	
	Tan δ (max.)	0.50	0.40	0.30	0.25	0.20	0.15	0.12	0.15	
	For capacitance of more than 1,000 μ F, add 0.02 for every increase of 1,000 μ F.									
Low temperature characteristics (at 120Hz)	W.V.(v)	10~16		25	35	50~63		80~100	160~250	315~450
	impedance ratio ZT/Z+20℃(max)	Z-25℃/Z+20℃		3	2	2			3	4
		Z-40℃/Z+20℃		15	10	8	6	5	6	-
Load life	The following specifications shall be satisfied when the capacitors are restored to 20℃ After the rated voltage has been applied for 2,000 hours at 105℃									
	Capacitance change				≤20% of the initial value					
	tan δ				≤200% of the initial specified value					
	I				≤The initial specified value					
Shelf life	The following specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them at 85℃ for 1,000 hours without voltage applied									
	Capacitance change				≤20% of the initial value					
	tan δ				≤150% of the initial specified value					
	I				≤200% of the initial specified value					
Others	Satisfies characteristic W of JIS C5141									

Dimensions



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Case Size DxL(mm) and Maximun Ripple current(A rms/at 105℃, 120Hz)

W.V.(V) Cap.(μF)	D	10				16			
		22	25	30	35	22	25	30	35
6,800						22×25 1.42			
8,200						22×30 1.69			
10,000	22×25 1.54					22×30 1.86	25×25 1.86		
12,000	22×30 1.82					22×35 2.18	25×30 2.20		
15,000	22×30 2.04	25×25 2.04				22×40 2.58	25×35 2.65	30×25 2.55	
18,000	22×35 2.39	25×30 2.41				22×50 3.12	25×35 2.87	30×30 3.00	
22,000	22×40 2.80	25×35 2.84	30×25 2.76				25×45 3.54	30×30 3.31	35×25 3.40
27,000	22×50 3.42	25×40 3.33	30×30 3.28				25×50 4.10	30×35 3.91	35×30 4.03
33,000		25×45 3.87	30×35 3.86	35×25 3.72				30×40 4.67	35×35 4.73
39,000		25×50 4.41	30×35 4.20	35×30 4.33				30×45 5.22	35×35 5.15
47,000			30×40 4.88	35×35 5.05					35×40 5.96
56,000			30×50 5.86	35×35 5.52					35×45 6.66
68,000				35×40 6.42					
82,000				35×45 7.74					

W.V.(V) Cap.(μF)	D	25				35			
		22	25	30	35	22	25	30	35
3,300						22×25 1.25			
3,900						22×30 1.47			
4,700	22×25 1.37					22×35 1.72	25×25 1.61		
5,600	22×30 1.61					22×35 1.88	25×30 1.90		
6,800	22×30 1.77	25×25 1.77				22×40 2.20	25×35 2.23	30×25 2.17	
8,200	22×35 2.08	25×30 2.10				22×50 2.67	25×40 2.59	30×30 2.56	
10,000	22×40 2.43	25×35 2.47	30×25 2.40			25×45 3.02	30×35 3.01	35×25 2.90	
12,000	22×45 2.81	25×40 2.86	30×30 2.83				25×50 3.46	30×35 3.30	35×30 3.40
15,000		25×45 3.37	30×35 3.36	35×25 3.24				30×45 4.10	35×35 4.04
18,000		25×50 3.87	30×35 3.68	35×30 3.80				30×50 4.69	35×40 4.67
22,000			30×45 4.53	35×35 4.46					35×45 5.42
27,000			30×50 5.25	35×40 5.22					35×50 6.28
33,000				35×45 6.06					
39,000				35×50 6.89					

W.V.(V) Cap.(μF)	D	50				63			
		22	25	30	35	22	25	30	35
1,200						22×25 0.98			
1,500						22×30 1.18			
1,800	22×25 1.04					22×30 1.29	25×25 1.29		
2,200	22×30 1.23					22×35 1.52	25×30 1.54		
2,700	22×35 1.46	25×25 1.37				22×40 1.79	25×35 1.81	30×25 1.76	
3,300	22×35 1.62	25×30 1.63				22×50 2.18	25×40 2.12	30×30 2.10	
3,900	22×40 1.86	25×35 1.89	30×25 1.84				25×45 2.43	30×35 2.43	35×25 2.33
4,700		22×50 2.26	25×40 2.20	30×30 2.17			25×50 2.80	30×35 2.66	35×30 2.75
6,800		25×50 2.91	30×35 2.77	35×30 2.86				30×50 3.73	35×35 3.51
8,200			30×40 3.22	35×35 3.34					35×40 4.07
10,000			30×50 3.92	35×35 3.69					35×50 4.93
12,000				35×40 4.26					
15,000				35×50 5.23					

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W.V.(V) Cap.(μF)	D	80				100			
		22	25	30	35	22	25	30	35
560						22×25 0.67			
680						22×30 0.79			
820	22×25 0.81					22×30 0.87	25×25 0.87		
1,000	22×30 0.96					22×35 1.03	25×30 1.04		
1,200	22×30 1.05	25×25 1.05				22×40 1.19	25×30 1.13	30×25 1.18	
1,500	22×35 1.26	25×30 1.18				22×45 1.40	25×35 1.35	30×30 1.41	
1,800	22×40 1.46	25×30 1.48	30×25 1.44				25×40 1.57	30×30 1.55	35×25 3
2,200	22×45 1.70	25×35 1.64	30×30 1.71				25×50 1.91	30×35 1.82	35×30 75
2,700		25×40 2.02	30×30 1.90	35×25 1.94				30×40 2.13	35×35 8
3,300		25×45 2.34	30×35 2.30	35×30 2.86				30×45 2.48	35×35 1
3,900			30×40 2.56	35×35 2.66					35×40 7
4,700			30×45 2.96	35×35 2.92					35×45 3
5,600				35×40 3.36					
6,800				35×45 3.89					

W.V.(V) Cap.(μF)	D	160				180			
		22	25	30	35	22	25	30	35
150						22×25 0.39			
180	22×25 0.42					22×30 0.46			
220	22×30 0.50	25×25 0.50				22×30 0.50	25×25 0.50		
270	22×35 0.60	25×30 0.56				22×35 0.60	25×30 0.60		
330	22×40 0.70	25×30 0.62				22×40 0.70	25×35 0.71	30×25 0.69	
390	22×45 0.80	25×35 0.77	30×25 0.75			22×50 0.84	25×40 0.82	30×30 0.81	
470	22×50 0.92	25×40 0.90	30×30 0.88				25×45 0.91	30×35 0.94	35×25 1
560		25×45 1.03	30×30 1.03	35×25 0.99			25×50 1.08	30×35 1.03	35×30 1
680		25×50 1.19	30×40 1.20	35×30 1.17				30×40 1.20	35×35 1
820			30×45 1.38	35×35 1.36				30×45 1.38	35×35 1
1,000			30×50 1.60	35×40 1.59					35×40 1
1,200				35×45 1.83					
1,500				35×50 2.14					

W.V.(V) Cap.(μF)	D	200				250			
		22	25	30	35	22	25	30	35
100						22×25 0.28			
120	22×25 0.35					22×30 0.33			
150	22×30 0.42					22×30 0.37	25×25 0.37		
180	22×30 0.46	25×25 0.46				22×35 0.44	25×30 0.44		
220	22×35 0.54	25×30 0.54				22×40 0.51	25×35 0.52	30×25 0.50	
270	22×40 0.63	25×30 0.60	30×25 0.63			22×50 0.62	25×40 0.61	30×30 0.60	
330	22×45 0.74	25×35 0.71	30×30 0.74				25×45 0.71	30×30 0.71	35×25 3
390	22×50 0.84	25×40 0.82	30×30 0.81	35×25 0.83			25×50 0.81	30×35 0.77	35×30 7
470		25×45 0.94	30×35 0.94	35×30 0.97				30×40 0.89	35×35 8
560			30×35 1.09	35×30 1.06				30×45 1.02	35×35 1
680			30×45 1.26	35×35 1.24					35×40 7
820			30×50 1.45	35×35 1.44					35×45 3
1,000				35×45 1.67					
1,200				35×50 1.91					

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W.V.(V)		315				350			
Cap.(μF)	D	22	25	30	35	22	25	30	35
47						22×25 0.19			
56						22×30 0.23			
68	22×25 0.23					22×30 0.25	25×25 0.25		
82	22×30 0.28					22×35 0.29	25×30 0.30		
100	22×30 0.30	25×25 0.30				22×40 0.34	25×30 0.33	30×25 0.34	
120	22×35 0.36	25×30 0.36				22×45 0.40	25×35 0.38	30×30 0.40	
150	22×40 0.42	25×35 0.43	30×25 0.42				25×40 0.45	30×30 0.45	35×25 0.46
180	22×45 0.49	25×40 0.47	30×30 0.49				25×45 0.52	30×35 0.52	35×30 0.54
220		25×45 0.55	30×30 0.54	35×25 0.55				30×40 0.61	35×30 0.59
270		25×50 0.67	30×35 0.64	35×30 0.66				30×45 0.71	35×35 0.70
330			30×40 0.75	35×35 0.77				35×40 0.82	
390			30×50 0.85	35×35 0.84					35×45 0.93
470				35×40 0.97					
560				35×45 1.12					