



SN SERIES ALUMINUM ELECTROLYTIC CAPACITORS

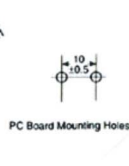
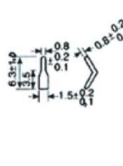
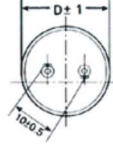
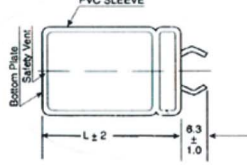
Features

- Load life of 1,000 hours at 85℃.
- Snap-in terminal type.
- Applications:audio,video and other filtering applications.
- Having safety vents.

Characteristics

Item	Characteristics									
Operating temperature range	-40~+85℃ (for 10V to 250V) -25~+85℃ (for 315V to 450V)									
Rated voltage range	10~450V									
Capacitance range	47-82,000 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	80~100	160~350	400~450
	Tan δ (max.)	0.50	0.45	0.40	0.35	0.30	0.25	0.20	0.15	0.20
	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)	6.3		10~16		25~100		160~450		
	impedance ratio ZT/Z+20℃(max)	Z-25℃/Z+20℃		4		3		2		6
		Z-40℃/Z+20℃		8		6		4		-
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 85℃									
	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(mA/at 85℃,120Hz)

W.V.(V) Cap.(μF)	D	10				35			
		22	25	30	35	22	25	30	35
8,200						22×25 2.08			
10,000			22×25 2.18			22×30 2.48	25×25 2.48		
12,000			22×30 2.58			22×35 2.90	25×30 2.93		
15,000	22×30 2.88	25×25 2.88				22×40 3.44	25×30 3.27	30×25 3.40	
18,000	22×35 3.37	25×30 3.40				22×45 3.97	25×35 3.83	30×30 4.00	
22,000	22×40 3.95	25×35 4.01	30×25 3.90			22×50 4.60	25×40 4.48	30×30 4.42	35×25 4.53
27,000	22×45 4.61	25×40 4.71	30×30 4.64				25×45 5.22	30×35 5.21	35×30 5.37
33,000		25×45 5.48	30×35 5.47	35×25 5.26				30×40 6.09	35×30 5.94
39,000		25×50 6.24	30×35 5.94	35×25 6.13				30×45 6.96	35×35 6.86
47,000			30×40 6.89	35×30 6.73				30×50 8.00	35×40 7.95
56,000			30×45 7.91	35×35 7.80					35×45 9.12
68,000				35×40 9.07					
82,000				35×45 10.46					

W.V.(V) Cap.(μF)	D	25				35			
		22	25	30	35	22	25	30	35
3,300						22×25 1.50			
3,900						22×30 1.76			
4,700						22×30 1.93	25×25 1.93		
5,600	22×25 1.83					22×35 2.25	25×30 2.27		
6,800	22×30 2.17	25×25 2.17				22×40 2.63	25×30 2.50	30×25 2.59	
8,200	22×35 2.55	25×30 2.57				22×45 3.04	25×35 2.93	30×30 3.06	
10,000	22×40 2.98	25×30 2.84	30×25 2.94			22×50 3.52	25×40 3.42	30×30 3.38	35×25 3.46
12,000	22×45 3.44	25×35 3.31	30×30 3.46				25×45 3.95	30×35 3.94	35×30 4.06
15,000	22×50 4.03	25×40 3.92	30×30 3.87	35×25 3.96			25×50 4.62	30×40 4.66	35×30 4.54
18,000		25×45 4.52	30×35 4.51	35×30 4.65				30×45 5.36	35×35 5.29
22,000			30×40 5.27	35×30 5.15					35×40 6.17
27,000			30×45 6.14	35×35 6.06					35×45 7.18
33,000				35×40 7.07					
39,000				35×45 8.07					

W.V.(V) Cap.(μF)	D	50				63			
		22	25	30	35	22	25	30	35
1,500						22×25 1.20			
1,800						22×30 1.41			
2,200	22×25 1.32					22×30 1.67	25×25 1.41		
2,700	22×30 1.58	25×25 1.58				22×35 1.96	25×30 1.68		
3,300	22×35 1.87	25×30 1.88				22×40 2.28	25×30 1.86	30×25 1.93	
3,900	22×40 2.15	25×30 2.04				22×50 2.60	25×35 2.20	30×30 2.30	
4,700	22×45 2.49	25×35 2.39	30×25 2.32				25×40 2.53	30×30 2.50	35×25 3.46
5,600	22×50 2.84	25×40 2.77	30×30 2.73				25×45 2.92	30×35 2.92	35×30 4.06
6,800		25×45 3.21	30×35 3.20	35×25 3.08			25×50 3.34	30×40 3.37	35×30 4.54
8,200		25×50 3.69	30×40 3.72	35×30 3.63				30×45 3.90	35×35 5.29
10,000			30×45 4.32	35×35 4.26				30×50 4.48	35×40 6.17
12,000			30×50 4.95	35×40 4.92					35×45 7.18
15,000				35×45 5.78					
18,000				35×50 6.62					

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W.V.(V) Cap.(μF)	D	80				100			
		22	25	30	35	22	25	30	35
680						22×25 0.90			
820						22×30 1.07			
1,000	22×25 1.09					22×30 1.18	25×25 1.18		
1,200	22×30 1.29					22×35 1.38	25×30 1.39		
1,500	22×35 1.54	25×25 1.44				22×40 1.63	25×35 1.66	30×25 1.61	
1,800	22×45 2.08	25×30 1.70				22×50 1.97	25×40 1.92	30×30 1.90	
2,200	22×50 2.42	25×35 2.01	30×25 1.95				25×45 2.24	30×35 2.23	35×25 2.15
2,700		25×40 2.35	30×30 2.32	35×25 2.38			25×50 2.60	30×40 2.61	35×30 2.55
3,300		25×45 2.74	30×35 2.73	35×30 2.82				30×45 3.04	35×35 2.99
3,900		25×50 3.12	30×40 3.14	35×30 3.06				30×50 3.46	35×40 3.44
4,700			30×45 3.62	35×35 3.57					35×45 3.96
5,600			30×50 4.14	35×40 4.12					35×50 4.52
6,800				35×45 4.76					
8,200				35×50 5.47					

W.V.(V) Cap.(μF)	D	160				180			
		22	25	30	35	22	25	30	35
180						22×25 0.53			
220	22×25 0.59					22×30 0.64			
270	22×30 0.71	25×25 0.71				22×30 0.71	25×25 0.71		
330	22×30 0.83	25×30 0.84				22×35 0.83	25×30 0.84		
390	22×35 0.91	25×30 0.91				22×40 0.96	25×35 0.98	30×25 0.95	
470	22×40 1.06	25×35 1.07	30×25 1.04			22×45 1.11	25×45 1.07	30×30 1.12	
560	22×50 1.27	25×40 1.24	30×30 1.22				25×40 1.24	30×30 1.22	35×25 1.25
680		25×45 1.44	30×35 1.43	35×25 1.38			25×50 1.50	30×35 1.43	35×30 1.48
820		25×50 1.65	30×35 1.57	35×30 1.62				30×40 1.66	35×30 1.62
1,000			30×40 1.84	35×35 1.90				30×45 1.93	35×35 1.90
1,200			30×50 2.21	35×35 2.09					35×40 2.20
1,500				35×45 2.58					35×50 2.70
1,800				35×50 2.96					

W.V.(V) Cap.(μF)	D	200				250			
		22	25	30	35	22	25	30	35
120						22×25 0.44			
150						22×30 0.53			
180	22×25 0.53					22×30 0.58	25×25 0.58		
220	22×30 0.64	25×25 0.64				22×35 0.68	25×30 0.69		
270	22×35 0.75	25×30 0.76				22×40 0.80	25×30 0.76	30×25 0.79	
330	22×40 0.88	25×30 0.84				22×45 0.93	25×35 0.90	30×30 0.94	
390	22×45 1.01	25×35 0.98	30×25 0.95			22×50 1.07	25×40 1.03	30×30 1.02	35×25 1.04
470	22×50 1.17	25×40 1.13	30×30 1.12				25×45 1.19	30×35 1.19	35×30 1.23
560		25×45 1.30	30×35 1.30	35×25 1.25				30×40 1.37	35×30 1.34
680		25×50 1.50	30×40 1.51	35×30 1.48				30×45 1.59	35×30 1.57
820			30×45 1.75	35×35 1.72				30×50 1.83	35×40 1.82
1,000			30×50 2.02	35×40 2.01					35×45 2.11
1,200				35×45 2.31					35×50 2.41
1,500				35×50 2.70					

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W.V.(V) Cap.(μF)	D
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