

Aluminum Electrolytic Capacitor

SN series

- Non-polarity standard product , 85°C 2000hours.
- Suitable for DC two-way return circuit.
- RoHS Compliance
- 無極性 85°C 2000小時標準品。
- 適用於直流雙向迴路。

SPECIFICATIONS

Items 項目	Characteristics 特性								
Capacitance Tolerance 靜電容量誤差	± 20%(120Hz,20℃)								
Operating Temperature Range 適用溫度範圍	-40 ~ +85℃								
Rated Voltage Range 額定電壓範圍	6.3 ~ 100VDC								
Leakage Current 洩漏電流	I ≤ 0.03CV or 3 (μA) which is greater.(After 5 minutes application of DC rated voltage, at 20 °C)								
Dissipation Factor 散逸因素(tan δ)	Measurement Frequency: 120Hz. Temperature: 20℃								
	Rated Voltage(V)	6.3	10	16	25	35	50	63	100
	tan δ(Max)	0.26	0.24	0.22	0.20	0.16	0.14	0.12	0.10
	When nominal capacitance over 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF.								
Low Temperature Stability 低溫特性 Impedance Ratio(Max) 阻抗比率(最大值)	Measurement Frequency: 120Hz.								
	Rated Voltage(V)	6.3	10	16	25	35	50	63	100
	Z(-25℃)/Z(20℃)	4	3	2	2	2	2	2	2
	Z(-40℃)/Z(20℃)	10	8	6	5	4	4	3	3
Load Life 負荷壽命	2000hours with the polarity inverted every 250 hours at 85℃								
	Capacitance Change		Within ± 20% of Initial Value						
	tan δ		200% or less of Initial Specified Value						
	Leakage Current		Initial Specified Value or less						
Shelf Life 放置壽命	The following specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 1,000 hours 85℃ without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to them 4.1 of JIS C5101-4.								
	Capacitance Change		Within ± 20% of Initial Value						
	tan δ		200% or less of Initial Specified Value						
	Leakage Current		Initial Specified Value or less						
Standards 參照標準	JIS C 5101-4 (IEC 60384)								

Frequency Coefficient of Permissible Ripple Current

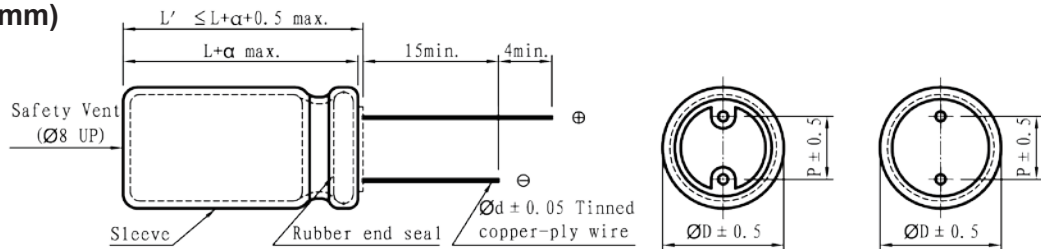
Capacitance (μF)	Frequency (Hz)			
	50	120	1K	$\geq 10K$
< 100	0.80	1.00	1.30	1.50
≥ 100	0.80	1.00	1.15	1.20

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise. When long life performance is required in actual use , the rms ripple current has to be reduced.

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DIMENSIONS(mm)



ϕD	4	5	6.3	8	10	13	16	18
P	1.5	2.0	2.5	3.5	5.0	5.0	7.5	7.5
ϕd	0.45	0.5	0.5	0.5	0.6	0.6	0.8	0.8

α	(L < 16) 1.0 (L $\geq$ 16) 2.0
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STANDARD RATINGS

D×L(mm) ; R.C.(mA rms) at 85°C 120Hz

Cap (μF)	V (Code) Item	6.3 (0J)		10 (1A)		16 (1C)		25 (1E)	
		D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.
4.7						4x7	19	5x7	22
10						5x7	30	5x11	45
				4x7	24	5x11	42	6.3x7	35
22				5x7	41	5x11	59	6.3x7	53
				5x11	57	6.3x7	51	6.3x11	66
33	5x7	43		5x11	67	6.3x7	64	6.3x11	88
	5x11	63		6.3x7	56	6.3x11	80	8x7	74
47	6.3x7	58		6.3x7	67	6.3x7	75	8x7	87
	5x11	76		6.3x11	83	6.3x11	95	8x12	100
100	6.3x11	125		6.3x11	128	8x7	125	8x14	160
	8x7	96		8x7	110	8x12	160		
220	8x7	140		8x14	215	10x16	300		
	8x12	210						10x16	385
330	8x14	270		10x16	350	10x16	375	13x21	460
470	10x16	370		10x20	410	10x20	480	13x21	540
1000	10x20	650		13x21	720	13x25	855	16x26	950
2200	13x25	1160		16x26	1280	16x32	1510	18x35	1620
3300	16x26	1570		16x32	1690	18x35	1980		
4700	16x32	2020		18x35	2160				
6800	18x35	2600							

Cap (μF)	V (Code) Item	35 (1V)		50 (1H)		63 (1J)		100 (2A)	
		D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.
0.10				4x7	4				
0.22				4x7	6				
0.33				4x7	7.3				
0.47				4x7	8.9				
0.1~0.47				5x11	11	5x11	11	5x11	14
1.0				4x7	12	5x11	17	5x11	21
				5x11	17				
2.2				4x7	19	5x11	25	6.3x11	33
				5x11	25				
3.3				5x7	25	5x11	37	6.3x11	39
	4x7	20		5x11	28				
4.7	5x7	30		5x11	34	6.3x11	47	8x12	57
	5x11	34		6.3x7	38				
10	5x11	45		6.3x11	52	8x12	68	8x14	80
	6.3x7	48		8x7	54				
22	6.3x11	74		8x7	66	8x14	95	10x16	135
	8x7	62		8x12	88				
33	8x7	76		8x14	105	10x16	135	13x21	220
	8x12	105							
47	8x14	125		10x16	150	10x20	180	13x21	240
100	10x16	230		10x20	265	13x21	320	16x26	430
220	13x21	420		13x25	480	16x26	570	18x35	720
330	13x21	510		16x26	650	16x32	660		
470	13x25	660		16x32	840	18x35	965		
1000	16x32	1140							

※ 13mm may be replaced by 12.5mm upon customer's request.