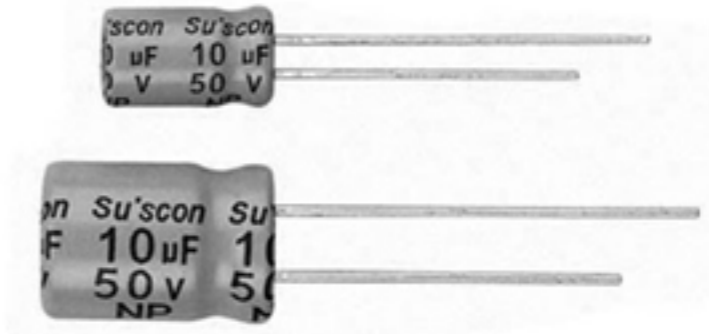


# SN series

- 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°C)									
Operating Temperature Range 適用溫度範圍	-40 ~ +85°C									
Rated Voltage Range 額定電壓範圍	6.3 ~ 100VDC									
Leakage Current 洩漏電流	$I \leq 0.03CV$ 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°C									
	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°C)/Z(20°C)	4	3	2	2	2	2	2	2	
	Z(-40°C)/Z(20°C)	10	8	6	5	4	4	3	3	
Load Life 負荷壽命	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied for 2,000 hours with the polarity inverted every 250 hours at 85°C.									
	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°C after exposing them for 1,000 hours 85°C 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

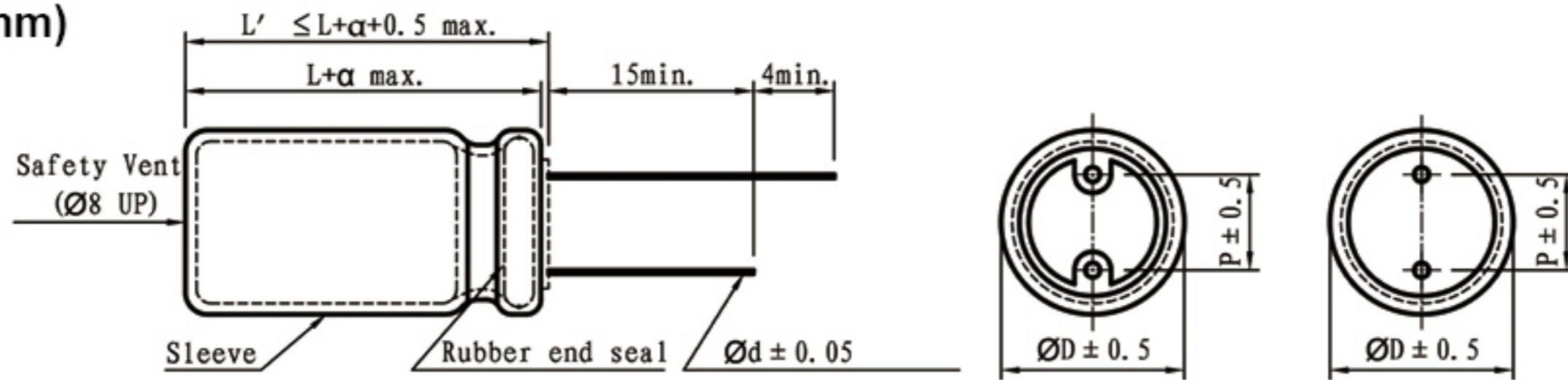
Capacitance (μF)	Frequency (Hz)			
	50	120	1K	≥ 10K
< 100	0.80	1.00	1.30	1.50
≥ 100	0.80	1.00	1.15	1.20

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 10°C rise. When long life performance is required in actual use , the rms ripple current has to be reduced.

SN

# SN series

**DIMENSIONS(mm)**



$\alpha$	(L < 16) 1.0
	(L ≥ 16) 2.0

**STANDARD RATINGS**

DxL(mm) ; R.C.(mA rms) at 85°C 120Hz

Cap (µF)	V	6.3		10		16		25	
		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				4x7	24	5x11	42	5x11	45
				5x7	41	5x11	59	6.3x7	35
22				5x11	57	6.3x7	51	6.3x11	66
		5x7	43	5x11	67	6.3x7	64	6.3x11	88
33		5x11	63	6.3x7	56	6.3x11	80	8x7	74
		6.3x7	58	6.3x7	67	6.3x7	75	8x7	87
47		5x11	76	6.3x11	83	6.3x11	95	8x12	100
		6.3x11	125	6.3x11	128	8x7	125	8x14	160
100		8x7	96	8x7	110	8x12	160		
	220		8x7	140	8x14	215	10x16	300	10x16
		8x12	210						
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	35		50		63		100	
		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.

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