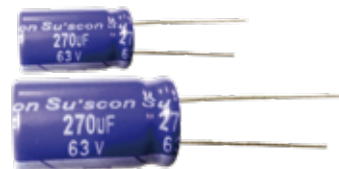


SGN series

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- Anhydrous product.
- High ripple current, ultra low impedance at high frequency range.
- 105°C 2000 hours~5000 hours.Long life.
- RoHS Compliance
- 無水系產品。
- 高紋波電流、高頻超低阻抗。
- 105°C 2000小時~5000小時.長壽命產品。



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	-55 ~ +105℃								
Rated Voltage Range 額定電壓範圍	6.3 ~ 50VDC								
Leakage Current 洩漏電流	I≤0.01CV or 3 (μA) which is greater.(After 2 minutes application of DC rated voltage, at 20 ℃)								
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)	0.24	0.20	0.16	0.15	0.12	0.10	0.09	
	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℃)	2	2	2	2	2	2	2	2
	Z(-55℃)/Z(20℃)	3	3	3	3	3	3	3	3
Load Life 負荷壽命	The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjected to DC voltage with the rated ripple current is applied for 5,000 hours (ϕ D≤6.3:2,000 hours; ϕ D=8:3,000 hours; ϕ D=10:4,000 hours) at 105℃.								
	Capacitance Change		Within ± 25% 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 105℃ 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	AEC-Q200、IEC 60384-4(JIS C5101-4)								

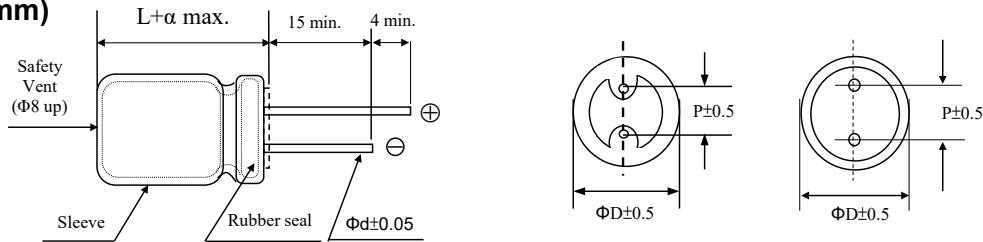
Frequency Coefficient of Permissible Ripple Current

Capacitance (μF)	Frequency (Hz)				
	50	120	1K	10K	100K
≤ 33	0.45	0.55	0.75	0.90	1.00
47 ~ 330	0.60	0.70	0.85	0.95	1.00
470 ~ 1000	0.65	0.75	0.90	0.98	1.00
1200 ~ 6800	0.75	0.80	0.95	1.00	1.00

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DIMENSIONS(mm)



ΦD	5	6.3	8	10	12.5	16	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
Φd	0.5	0.5	0.5	0.6	0.6	0.8	0.8

α	(L < 20) 1.5
	(L ≥ 20) 2.0

STANDARD RATINGS

DxL(mm), R.C : (mA rms) at 105°C 100kHz , IMP:(Ω max) at 20°C,100kHz.

Cap (μF)	V Item	6.3			10			16		
		D x L	R.C.	IMP	D x L	R.C.	IMP	D x L	R.C.	IMP
56								5x11	250	0.500
100					5x11	250	0.500			
120								6.3x11	405	0.210
150		5x11	250	0.845						
220					6.3x11	405	0.380	8x11.5	700	0.210
330		6.3x11	405	0.230				8x11.5	760	0.120
470					8x11.5	760	0.210	8x16	995	0.093
560		8x11.5	760	0.130				10x12.5	1,030	0.087
680					8x16	995	0.093	8x20	1,250	0.068
820					10x12.5	1,030	0.087	10x16	1,430	0.062
1000		8x16	995	0.099						
1200		10x12.5	1,030	0.093	8x20	1,250	0.068	10x20	1,820	0.038
					10x16	1,430	0.062			
1500		8x20	1,250	0.072	10x20	1,820	0.038	10x25	2,150	0.036
2200		10x16	1,430	0.066						
2700		10x20	1,820	0.040	10x25	2,150	0.036	12.5x20	2,360	0.035
3300		10x25	2,150	0.038	12.5x20	2,360	0.035	12.5x25	2,770	0.030
3900								12.5x30	3,140	0.027
4700		12.5x20	2,360	0.037	12.5x25	2,770	0.030	12.5x35	3,400	0.024
5600		12.5x25	2,770	0.032	12.5x30	3,290	0.027	16x26	3,460	0.026
6800		12.5x30	3,290	0.027	12.5x35	3,400	0.024			
		12.5x35	3,140	0.026	16x26	3,460	0.026			
		16x26	3,460	0.027						

Cap (μF)	V Item	25			35			50		
		D x L	R.C.	IMP	D x L	R.C.	IMP	D x L	R.C.	IMP
22								5x11	238	1.310
33					5x11	250	0.330			
47		5x11	250	0.500				6.3x11	385	1.140
56					6.3x11	405	0.230	6.3x11	385	0.540
68										
100		6.3x11	405	0.380				8x11.5	724	0.340
120								8x16	950	0.230
150					8x11.5	760	0.130	10x12.5	979	0.230
180								8x20	1,190	0.180
220		8x11.5	760	0.150	8x16	995	0.099	10x16	1,370	0.160
270					10x12.5	1,030	0.093			
330					8x20	1,250	0.100	10x20	1,580	0.120
		8x16	995	0.093	10x16	1,430	0.100	10x25	1,870	0.110
		10x12.5	1,030	0.087						
470		8x20	1,250	0.068	10x20	1,820	0.085	12.5x20	2,050	0.110
		10x16	1,430	0.062						
560					10x25	2,150	0.053	12.5x25	2,410	0.088
680		10x20	1,820	0.058	12.5x20	2,360	0.051	12.5x30	2,860	0.081
820		10x25	2,150	0.036	12.5x20	2,450	0.048	12.5x35	2,960	0.074
1000		12.5x20	2,360	0.035	12.5x25	2,770	0.044	16x26	3,010	0.081
1200					12.5x30	3,140	0.037			
1500		12.5x25	2,770	0.030	12.5x35	3,400	0.035			
1800		12.5x30	3,140	0.026	16x26	3,460	0.037			
2200		12.5x35	3,400	0.024						
2700		16x26	3,460	0.026						

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STANDARD RATINGS

DxL(mm), R.C : (mA rms) at 105°C 100kHz , IMP:(Ω max) at 20°C,100kHz.

Cap (μF)	V	63				100			
		D x L	R.C.	IMP		D x L	R.C.	IMP	
				20°C	-10°C			20°C	-10°C
2.2						5x11	72	6.00	21.0
3.3						5x11	78	5.00	18.0
4.7						6.3x11	180	1.20	4.20
6.8						6.3xx11	180	1.20	4.20
10		6.3x11	180	1.20	4.20	8x11.5	305	0.560	2.00
22		6.3x11	180	1.20	4.20	8x11.5	308	0.560	2.00
33		8x11.5	305	0.560	2.00	10x12.5	380	0.500	1.18
39		8x11.5	305	0.560	2.00	10x16	500	0.320	1.10
47		8x11.5	305	0.560	2.00	10x20	620	0.270	0.950
56		10x12.5	380	0.500	1.18	10x20	620	0.270	0.950
68		10x12.5	380	0.500	1.80	10x25	760	0.210	0.630
100		10x20	620	0.270	0.950	12.5x20	890	0.160	0.560
220		12.5x20	820	0.094	0.240	16x20	1,440	0.090	0.320
330		12.5x25	1,100	0.073	0.210	16x31.5	1,790	0.060	0.170
390		12.5x25	1,100	0.073	0.210	16x35.5	2,065	0.056	0.140
470		16x25	1,770	0.060	0.180				
560		16x31.5	2,030	0.048	0.140				
680		16x31.5	2,030	0.048	0.140				
1000		18x35.5	2,240	0.041	0.110				