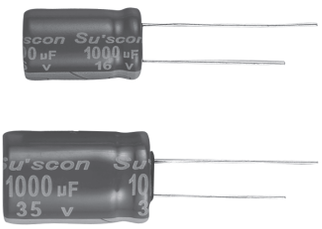
SGN series

- Enabled high ripple current lower impedance at high frequency range.
- Long life.
- 耐高紋波電流, 超低阻抗於高頻。
- 長壽命品。



SPECIFICATIONS

Items 項目	Characteristics 特 性						
Capacitance Tolerance 靜電容量誤差	±20% (120Hz, 20℃)						
Operating temperature Range 適用温度範圍	-40~＋105℃						
Rated Voltage Range 工作電壓範圍	6.3~50V						
Leakage Current 洩漏電流	1≦0.01CV or 3(μA) (After 2 minutes application of DC working 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
	tan δ (MAX)	0.24	0.20	0.16	0.15	0.12	0.10
	When nominal capacitance exceeds 1000uF, add 0.02 to the value above for each 1000uF increase. (20℃、120Hz)						
Low Temperature Stability 低温特性 Impedance Ratio (MAX) 阻抗比率（最大值）	Measurement Frequency: 120Hz.						
	Rated Voltage (V)	6.3	10	16	25	35	50
	Z (-25℃) / Z (20℃)	2	2	2	2	2	2
	Z (-40℃) /Z (20℃)	3	3	3	3	3	3
Load Life 負荷壽命	5000 hours, with application of working voltage at 105℃. (φD ≦ 6.3mm, 2000 hours; φD = 8mm, 3000 hours ;φD = 10mm, 4000 hours)						
	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	1000hours, no voltage applied, at 105℃。 After Test：U_R to be applied for 30 minutes, 24 to 48 hours before measurement.						
	Capacitance Change	≦±20% of the Initial Value					
	tan δ	≦200% of the Initial Specified Value					
	Leakage Current	≦The Initial Specified Value					
Standards 參照標準	JIS C 5141 and JIS C 5102						

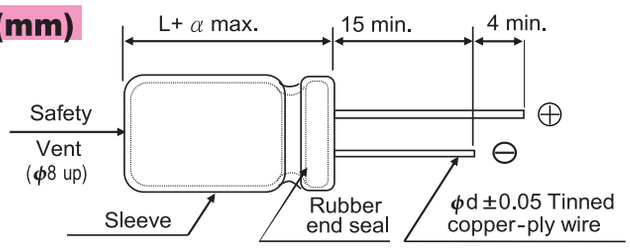
PERMISSIBLE RIPPLE CURRENT

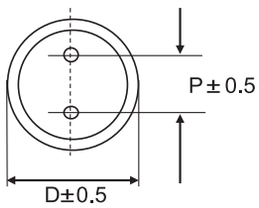
Frequency Coefficient

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

SGN series

DIMENSIONS (mm)





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

α	(L<16)1.0 (L≧16)2.0

STANDARD RATINGS

D×L (mm); R.C.: (mA rms) at 105°C, 100KHZ. IMP (Ω max) at 20°C, 100KHz

Cap (μF)	WV(V)/(Code) Item	6.3 (0J)			10 (1A)			16 (1C)		
		D×L	R.C.	IMP	D×L	R.C.	IMP	D×L	R.C.	IMP
56								5×11	255	1.200
100					5×11	250	1.200			
120								6.3×11	405	0.520
150		5×11	250	1.200						
220					6.3×11	405	0.520			
330		6.3×11	405	0.520				8×12	760	0.288
470					8×12	760	0.288	8×16	995	0.224
								10×13	1030	0.212
560		8×12	760	0.288						
680					8×16	995	0.224	8×20	1250	0.164
					10×13	1030	0.212	10×16	1430	0.152
820		8×16	995	0.224						
1000		10×13	1030	0.212	8×20	1250	0.164	10×20	1820	0.092
					10×16	1430	0.152			
1200		8×20	1250	0.164	10×20	1820	0.092	10×25	2150	0.088
		10×16	1430	0.152						
1500		10×20	1820	0.092	13×25	2150	0.088	13×21	2260	0.084
2200		10×25	2150	0.088	13×21	2360	0.084	13×25	2770	0.072
2700								13×30	3140	0.064
3300		13×21	2360	0.084	13×25	2770	0.072	13×35	3400	0.060
3900		13×25	2770	0.072	13×30	3290	0.064	16×26	3460	0.064
4700		13×30	3290	0.064	18×35	3400	0.060			
5600		13×35	3140	0.060	16×26	3460	0.064			
6800		16×26	3460	0.064						

Cap (μF)	WV(V)/(Code) Item	25(1E)			35 (1V)			50 (1H)		
		D×L	R.C.	IMP	D×L	R.C.	IMP	D×L	R.C.	IMP
22								5×11	238	1.360
33					5×11	250	1.200			
47		5×11	250	1.200						
56					6.3×11	405	0.520	6.3×11	385	0.560
68										
100		6.3×11	405	0.520				8×12	724	0.296
120								8×16	950	0.244
150					8×12	760	0.288	10×13	979	0.244
180								8×20	1190	0.184
220		8×12	760	0.288	8×16	995	0.224	10×16	1370	0.168
					10×13	1030	0.212			
270					8×20	1250	0.164	10×20	1580	0.120
330		8×16	995	0.224	10×16	1430	0.152	10×25	1870	0.112
		10×13	1030	0.212						
470		8×20	1250	0.164	10×20	1820	0.092	13×21	2050	0.108
		10×16	1430	0.152						
560					13×25	2150	0.088	13×25	2410	0.092
680		10×20	1820	0.092	13×21	2360	0.084	13×30	2860	0.084
820		10×25	2150	0.088	13×21	2450	0.080	13×35	2960	0.076
1000		13×21	2360	0.084	13×25	2770	0.072	16×26	3010	0.084
1200					13×30	3290	0.064			
1500		13×25	2770	0.072	18×35	3400	0.060			
1800		13×30	3140	0.064	16×26	3460	0.064			
2200		13×35	3400	0.060						
2700		16×26	3460	0.064						

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