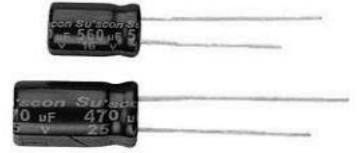


SGN series

- Anhydrous product
- High ripple current, ultra low impedance at high frequency range
- Long life
- AEC-Q200 Compliant
- RoHS Compliant



SPECIFICATIONS

Items	Characteristics							
Capacitance Tolerance	±20% (120Hz , 20°C)							
Operating Temperature Range	-55°C ~ +105°C							
Rated Voltage Range	6.3 ~ 50VDC							
Leakage Current	I ≤ 0.01CV or 3(μA), which is greater. (After 2 minutes application of DC rated voltage at 20°C)							
Dissipation Factor (tan δ)	Measurement Frequency:120Hz. Temperature: 20°C							
	Rated Voltage(V)	6.3	10	16	25	35	50	63~100
	tanδ (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	Measurement Frequency:120Hz							
Impedance Ratio(Max)	Rated Voltage(V)	6.3	10	16	25	35	50	63~100
	Z(-25°C) / Z(20°C)	2	2	2	2	2	2	2
	Z(-55°C) / Z(20°C)	3	3	3	3	3	3	3
Load Life	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 5000 hours (ΦD≤6.3: 2000 hours; ΦD=8: 3000 hours; ΦD=10: 4000 hours) at 105°C.							
	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	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1000 hours 105°C without voltage applied. Before the measurement, the capacitance 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	JIS C 5101-4-1 (IEC 60384)							

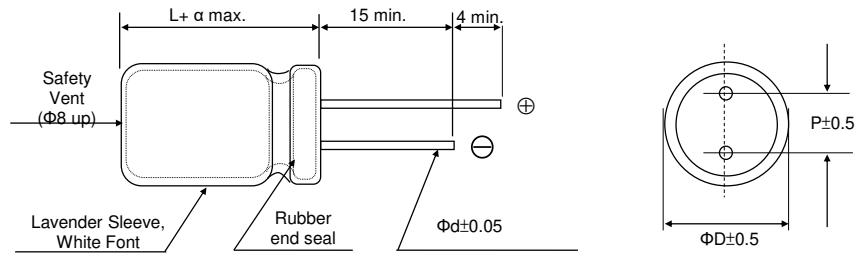
Frequency Coefficient of Permissible Ripple Current

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

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.

DIMENSIONS(mm)

ΦD	10
L	16
α	2.0
P	5.0
Φd	0.6



Electric Characteristics

Su'scon P/N	Cap. (μF)	Cap. Tol. (%)	Rate Volt. (V-DC)	Surge Volt. (V-DC)	Oper. Temp. ($^{\circ}C$)	Nominal Case Size D*L(mm)	Leakage Current Max (μA)	D.F. MAX (%)	R.C 100KHz (mA rms)	IMP 100KHZ at 25 $^{\circ}C$ (Ω)Max	Load Life (hours)
SGN050M101G16PE50S00R	100	± 20	50	63	105	10*16	50	10	553	0.180	4000

REMARKS:

1. Dissipation Factor Test: at 20 $^{\circ}C$, 120 Hz
2. Capacitance Test: at 20 $^{\circ}C$, 120 Hz
3. Ripple Current Test: at 105 $^{\circ}C$, 100K Hz
4. Leakage Current: Initial specified value or less
5. When have characteristic requested: Load life & shelf life test and etc., judgment standard reference to our catalogue.

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SGN-REV.1