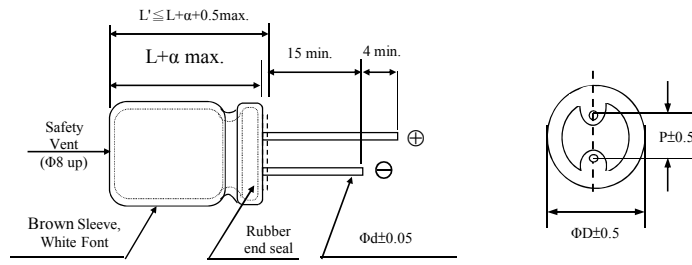


FOR APPROVAL

DIMENSIONS(mm)

ΦD	16
L	25
α	2.0
P	7.5
Φd	0.8



Customer: Ozdisan	Electrolytic Capacitors SG Series	Su'scon Code
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Electric Characteristics:												
Ozdisan	Su'scon	Cap. (uF)	Cap. Tol. (%)	Rate Volt. (V-DC)	Surge Volt. (V-DC)	Oper. Temp. (°C)	Nominal Case Size D*L(mm)	Leakage Current Max (uA)	D.F. MAX (%)	R.C 100KHz (mA rms)	IMP 100KHz at 25°C (Ω)Max	Load Life (Hours)
P/N	P/N											
	SG025M332J25TKKS00A	3300	±20	25	32	105	16*25	825	18	3520	0.037	5000
	SG050M152J25TKKS00A	1500	±20	50	63	105	16*25	750	10	3050	0.048	5000

REMARKS:

- Leakage Current Test:** 6.3V ~63V at 20°C for 2 minutes ;
- Operating temperature:** 6.3V~63V -40°C ~ +105°C ;
- Dissipation Factor Test:** at 20°C, 120 Hz.
- Capacitance Test:** at 20°C, 120 Hz.
- Ripple Current Test :** at 105°C, 100K Hz ;
- Load Life:** 5000 hours, subjected to DC voltage with the rated ripple current is applied at 105°C. ($\Phi \leq 6.3\text{mm}$, 2000hrs; $\Phi = 8\text{mm}$, 3000hrs; $\Phi = 10\text{mm}$, 4000hrs)

Capacitance Change: Within ±25% of initial value;
tanδ: 200% or less of initial specified value;
 According to the specified value which stated in the catalogue to do the life testing;

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 applide. 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;
tanδ: 200% or less of initial specified value;
Leakage Current : Initial specified value or less.

- when have characteristic requested:** Load life & shelf life test and etc. , judgment standard reference to our catalogue.

●SPECIFICATION

Leakage Current 洩漏電流	$I \leq 0.01CV$ (After 2 minutes application of DC working voltage, at 20°C.)							
Dissipation Factor 散逸因素 (損失角) (tan δ)	Measurement Frequency:120Hz. Temperature:20°C							
	Rate Voltage(V)	6.3	10	16	25	35	50	63
	tanδ (MAX)	0.22	0.19	0.16	0.14	0.12	0.10	0.09
Standards 參照標準		JIS C-5101-4(IEC 60384)						

●RIPPLE CURRENT COEFFICIENTS

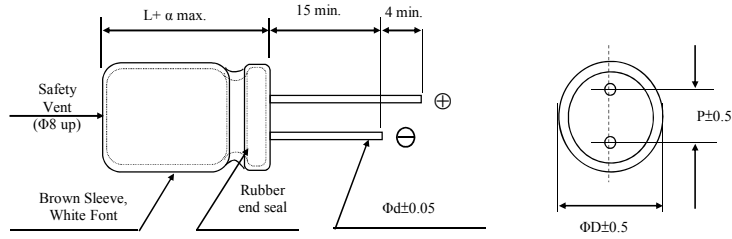
Frequency coefficient of allowable ripple current					
Capacitance(uF)	Frequency(Hz)				
	50	120	1k	10k	100k
≤ 33	0.35	0.40	0.75	0.90	1.00
47~330	0.45	0.50	0.85	0.95	1.00
470~1000	0.50	0.60	0.90	0.95	1.00
1200~6800	0.65	0.80	0.90	0.95	1.00

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.

FOR APPROVAL

DIMENSIONS(mm)

ΦD	10
L	20
α	2.0
P	5.0
Φd	0.6



Customer: Ozdisan		Electrolytic Capacitors SG Series								Su'scon Code		
Electric Characteristics:												
Ozdisan	Su'scon	Cap. (uF)	Cap. Tol. (%)	Rate Volt. (V-DC)	Surge Volt. (V-DC)	Oper. Temp. (°C)	Nominal Case Size D*L(mm)	Leakage Current Max (uA)	D.F. MAX (%)	R.C 100KHz (mA rms)	IMP 100KHz at 25°C (Ω)Max	Load Life (Hours)
P/N	P/N						D*L(mm)					
	SG050M471G20PKKKS00A	470	±20	50	63	105	10*20	235	10	1620	0.032	4000

REMARKS:

- Leakage Current Test:** 6.3V ~63V at 20°C for 2 minutes ;
- Operating temperature:** 6.3V~63V -40°C ~ +105°C ;
- Dissipation Factor Test:** at 20°C, 120 Hz.
- Capacitance Test:** at 20°C, 120 Hz.
- Ripple Current Test :** at 105°C, 100K Hz ;
- Load Life:** 5000 hours, subjected to DC voltage with the rated ripple current is applied at 105°C.
(Φ≤6.3mm, 2000hrs; Φ=8mm, 3000hrs; Φ=10mm, 4000hrs)

Capacitance Change: Within±25% of initial value;
tanδ: 200% or less of initial specified value;
 According to the specified value which stated in the catalogue to do the life testing;

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 applide. 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;
tanδ: 200% or less of initial specified value;
Leakage Current : Initial specified value or less.

- when have characteristic requested:** Load life & shelf life test and etc. , judgment standard reference to our catalogue.

●SPECIFICATION

Leakage Current 洩漏電流	I ≤ 0.01CV (After 2 minutes application of DC working voltage, at 20°C.)											
Dissipation Factor 散逸因素 (損失角)	Measurement Frequency: 120Hz. Temperature: 20°C											
(tan δ)	Rate Voltage(V)	6.3	10	16	25	35	50	63				
	tanδ (MAX)	0.22	0.19	0.16	0.14	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.											
Standards 參照標準	JIS C-5101-4(IEC 60384)											

●RIPPLE CURRENT COEFFICIENTS

Frequency coefficient of allowable ripple current					
Capacitance(uF)	Frequency(Hz)				
	50	120	1k	10k	100k
≤ 33	0.35	0.40	0.75	0.90	1.00
47~330	0.45	0.50	0.85	0.95	1.00
470~1000	0.50	0.60	0.90	0.95	1.00
1200~6800	0.65	0.80	0.90	0.95	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.