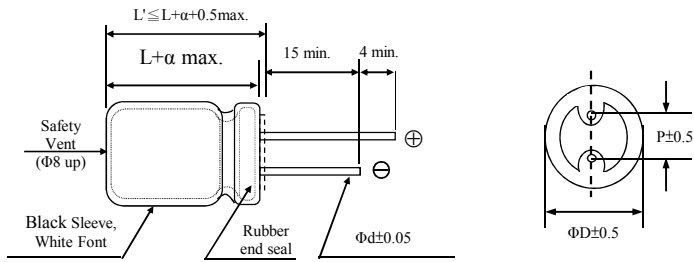


FOR APPROVAL

DIMENSIONS(mm)

ΦD	12.5
L	20
α	2.0
P	5.0
Φd	0.6



Customer: Ozdisan	Electrolytic Capacitors SE 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 120 Hz (mA rms)	Load Life (hours)
P/N	P/N										
	SE200M680X20TKKS00A	68	±20	200	250	105	12.5*20	428	15	250	5000

REMARKS:

1. Leakage Current Test: **6.3V ~100V at 20°C for 2minutes ; 160V ~500V at 20°C for 3 minute**
 2. Operating temperature: **6.3V~250V -40°C ~ +105°C ; 350V~500V -25°C ~ +105°C**
 3. Dissipation Factor Test: **at 20°C, 120 Hz.**
 4. Capacitance Test: **at 20°C, 120 Hz.**
 5. Ripple Current Test: **at 105°C, 120 Hz ;**
 6. Load Life: **5000 hours,subjected to DC voltage with the rated ripple current is applied at 105°C. (ΦD ≤ 8Φ: 3000 hours; ΦD=10Φ: 4000 hours;)**
- Capacitance Change:** Within±20% 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;
7. 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.
8. 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 or 3(uA), Which is greater. (After 2 minutes application of working voltage)	I ≤ 0.03CV + 20(uA), (After 3 minutes application of working voltage)									
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	80~100	160~250	350~500
	tanδ (MAX)	0.24	0.20	0.17	0.15	0.12	0.10	0.09	0.08	0.15	0.20
Standards 參照標準	JIS C-5101-4(IEC 60384)										

●RIPPLE CURRENT COEFFICIENTS

Frequency coefficient of allowable ripple current

Rated Voltage(V)	Capacitance(uF)	Frequency(Hz)			
		50	120	1k	≥ 10k
≤ 100	<100	0.70	1.00	1.40	1.60
	100~4700	0.75	1.00	1.30	1.40
	>4700	0.80	1.00	1.15	1.20
≥ 160	2.2~820	0.80	1.00	1.30	1.40

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.

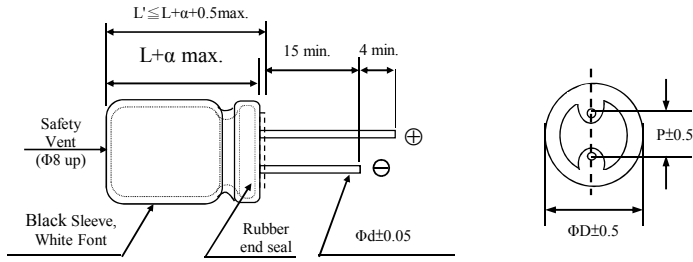
When long life performance is required in actual use, the rms ripple current has to be reduced.

Production date:2023.04.17

FOR APPROVAL

DIMENSIONS(mm)

ΦD	12.5
L	30
α	2.0
P	5.0
Φd	0.6



Customer: Ozdisan	Electrolytic Capacitors SE Series	Su'scon Code
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Electric Characteristics:											
Ozdisan	Su'scon	Cap.	Cap.	Rate	Surge	Oper.	Nominal	Leakage	D.F.	R.C	Load
P/N	P/N	(uF)	Tol.	Volt.	Volt.	Temp.	Case Size	Current	MAX	120 Hz	Life
			(%)	(V-DC)	(V-DC)	(°C)	D*L(mm)	Max (uA)	(%)	(mA rms)	(hours)
	SE500M330X30TE99S00A	33	±20	500	550	105	12.5*30	515	20	185	5000

REMARKS:	
1. Leakage Current Test:	6.3V ~100V at 20°C for 2minutes ; 160V ~500V at 20°C for 3 minute:
2. Operating temperature:	500V -40°C ~ +105°C
3. Dissipation Factor Test:	at 20°C, 120 Hz.
4. Capacitance Test:	at 20°C, 120 Hz.
5. Ripple Current Test:	at 105°C, 120 Hz ;
6. Load Life:	5000 hours,subjected to DC voltage with the rated ripple current is applied at 105°C. (ΦD ≤ 8Φ: 3000 hours; ΦD=10Φ: 4000 hours;)
Capacitance Change:	Within±20% 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;
7. 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.
8. 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 or 3(uA), Which is greater. (After 2 minutes application of working voltage)	I ≤ 0.03CV+ 20(uA), (After 3 minutes application of working voltage)									
Dissipation Factor 散逸因素 (損失角) (tan δ)	Measurement Frequency: 120Hz. Temperature: 20°C										
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	tanδ (MAX)	0.24	0.20	0.17	0.15	0.12	0.10	0.09	0.08	0.15	0.20
Standards 參照標準	JIS C-5101-4(IEC 60384)										

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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.

Production date:2023.04.17