Su'scon

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DIMENSIONS(mm)

FOR APPROVAL

■ Chip Type

Fig.1 ΦD=4~10mm

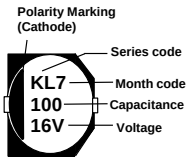
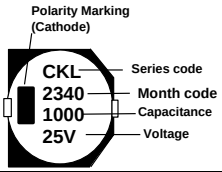
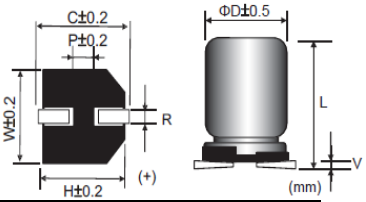


Fig.2 ΦD≧12.5mm





Size	ΦD	L	W	H	C	R	P	Vmax
4*6	4.0	6±0.3	4.3	4.3	5.1	0.5~0.8	1.0	0.3
5*6	5.0	6±0.3	5.3	5.3	5.9	0.5~0.8	1.4	0.3
6.3*5.4	6.3	5.4±0.3	6.6	6.6	7.2	0.5~0.8	2.1	0.3
6.3*6	6.3	6.0±0.3	6.6	6.6	7.2	0.5~0.8	2.1	0.3
6.3*7.7	6.3	7.7±0.3	6.6	6.6	7.2	0.5~0.8	2.1	0.3
8*10	8.0	10±0.5	8.3	8.3	9.0	0.7~1.1	3.2	0.3
10*10	10.0	10±0.5	10.3	10.3	11.0	0.7~1.3	4.5	0.3
12.5*13.5	12.5	13.5±0.5	13.0	13.0	13.7	1.1~1.4	4.5	0.4
16*16.5	16.0	16.5±0.5	17.0	17.0	18.0	1.4~1.8	6.4	0.4
18*16.5	18.0	16.5±1.0	19.0	19.0	20.0	1.4~1.8	6.4	0.4

Customer: Ozdisan	**Aluminum Electrolytic Capacitors CKL Series**	**Su'scon Code**

Electric Characteristics:

Ozdisan P/N	Su'scon P/N	Cap. (uF)	Cap. Tol. (%)	Rate Volt. (V-DC)	Surge Volt. (V-DC)	Oper. Temp. (℃)	Nominal Case Size D*L(mm)	Leakage Current Max (uA)	D.F. MAX (%)	R.C 120 Hz (mA rms)	Load Life (hours)
	CKL016M101E06PKKKV00R	100	±20	16	18.4	105	6.3*6	16	22	50	5000
	CKL035M471G10PKKKV00R	470	±20	35	40.3	105	10*10	164	13	340	5000
	CKL050M4R7D06PKKKV00R	4.7	±20	50	57.5	105	5*6	3	12	19	5000

REMARKS:

1. Leakage Current Test: **6.3V ~100V at 20℃ for 2 minutes ;**

2. Operating temperature: **6.3V~100V -40℃~ +105℃ ;**

3. .Dissipation Factor Test: **at 20℃, 120 Hz.**

4. Capactitance Test: **at 20℃, 120 Hz.**

5. Ripple Current Test: **at 105℃, 120 Hz ;**

6. Load Life: **5000 hours, with application of rated voltage at 105℃.**

Capacitance Change: **Within ±30% of initial value;**

tanδ: **300% or less of initial specified value;**

Leakage Current: **Initial specified value or less;**

7. Shelf Life: **The following specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 1000 hours 105℃ 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 ±30% of initial value;**

tanδ: **300% 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.**

9.Remarks: **Su'scon Part Number with suffix code "A" is specially offered for automotive project, which meets AEC-Q200 standard.**

●SPECIFICATION

Leakage Current 洩漏電流	After 2 minutes application of rated voltage,leakage current is not more than 0.01cv or 3(uA),whichever is greater.							
Dissipation Factor 散逸因素（損失角） (tan δ)	Measurement Frequency:120Hz. Temperature:20℃							
	Rate Voltage(V)	6.3	10	16	25	35	50	100
	tan δ （MAX)	0.32	0.28	0.22	0.16	0.13	0.12	0.12
Low Temperature Stability 低溫特性	Measurement Frequency:120Hz.							
	Rate Voltage(V)	6.3	10	16	25	35	50	100
Impedance Ratio(MAX)	Z(-25℃)/Z(20℃)	4	3	2	2	2	2	3
阻抗比率(MAX)	Z(-40℃)/Z(20℃)	10	7	5	3	3	3	6

●Frequency Coefficient of Permissible Ripple Current

Frequency (Hz) / Capacitance (μF)	120 ≦ F < 1K	1K ≦ F < 10K	10K ≦ F < 100K	100K ≦ F
4.7~33	1.00	1.20	1.30	1.45
>33	1.00	1.10	1.20	1.30

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every5℃ rise.
When long life performance is required in actual use, the rms ripple current has to be reduced.
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