KNSCHA 东莞市科尼盛电子有限公司

全球高端电容器制造商 DONGGUAN KNSCHA ELECTRONICS CO., LTD.

规格承认书

Specification for approval

客户名称:

(Customer Name)

产品名称: 铝电解电容

(Product Name) Aluninum Electrolytic Capacitor

客户料号:

(Customer part number)

科尼盛料号: 03EC0673

(KNSCHA number) 03EC0673

型号规格: KNSCHA SHC 35V100μF Φ6*7L

(Specifications) KNSCHA SHC 35V100μF Φ6*7L

制造
(Manufacture)
Approval

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(Fiction) (Chief) (Approval)

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审 核	核准
(Chief)	(Approval)
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客户				
	(Customer)			
	Approval			
检 验	审 核	核准		
(Inspect)	(Chief)	(Approval)		

东莞市科尼盛电子有限公司

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Aluminum Electrolytic Capacitors

Item Name	Rating	Case size	KNSCHA Lifetime
03EC0673 SHC 35V100 μ F		Φ6*7L	2000 hours

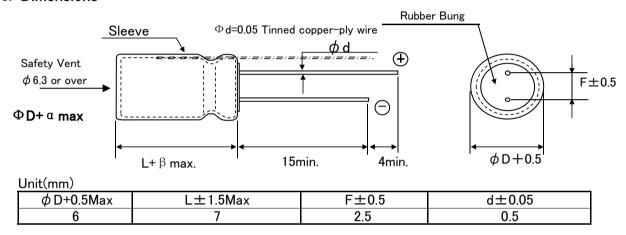
1. Operating Temp. Range

−40°C	~	+ 105℃	

2. Electrical Characteristics

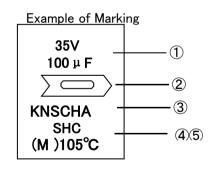
Table 1						
Rated Voltage VDC	Surge Voltage VDC	Nominal Static Capacitance (μ F)	Tolerance on Capacitance(%) 20°C 120Hz	Dissipation Factor (tan δ)max 20°C 120Hz		Permissible Ripple Current (mArms)max 105°C120Hz
35	44	100	-20 ~ +20	0.12	35	150

3. Dimensions



4. Marking

Following items are printed with white color on black color sleeve



- 1 Rated voltage & Nominal Capacitance
- 2 Polarity (negative)
- 3 Trade Mark
- 4 Symbol of Capacitance Tolerance (M)
- 5 Max Operating Temp.

5.MULTIPLIER FOR RIPPLE CURRENT

1. Frequency Coefficient

· · · · · · · · · · · · · · · · · · ·	Trequency esement					
Freq.(F	60 (50)	120	300	1K	10K	
0.1-47	0.75	1.00	1.35	1.55	2.00	
68-680	0.80	1.00	1.25	1.34	1.50	
1000-22000	0.85	1.00	1.10	1.13	1.15	

2. Temperature Coefficient

. Temperature obei	Temperature Obernolent				
Ambient	40	60	70	85	105
Temperature(°C)					
Coefficient	2.40	2.10	1.78	1.65	1.00

6. Characteristics

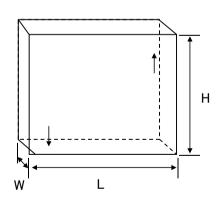
No.	Item	Perf	formance	Test Method
1	Leakage Current	I= Max Leakage Current		Protection Resistor : $1000\pm10\Omega$ Applied Volt : Rated Voltage Mesauring time : 2 minutes
2	Static Capacitance	80 \sim 120 μ F		Measured Frequency : 120Hz±20% Measured Voltage ≤ 0.5Vrms, 1.5 ~ 2.0VDC
3	Dissiption Factor (tanδ)	0.12 and Unde	er	Same as condition of Capacitors
4	High Temp. Load Charac- teristics	Leakage Current ≦the value specified in Table 1 Cap. Change ≦±20% of initial value Dissipation Factor ≦200% of value specified in Table Appearance No remarkable abnormality		Test Temp.: 105±2°C Applied voltage: Rated voltage Test Time :2,000 hours +72, -0 hours
5	High Temp. no load Charac- teristics	Cap. Change ≦ Dissipation Factor ≦	 ≦the value specified in Table 1 ≦ ±20% of initial value ≦200% of value specified in Table No remarkable abnormality Test Temp.: 105±2°C No voltage applied Test Time: 1000 hours +24, -0 hurs 	
6	Terminal Strength	Tensile Strength Bending Strength	45N {4.5kg} 25N {2.5kg}	Keeping time Tensile 1∼5sec Bending 30±5sec
7	Impedance Ratio	W V Z-25°C/Z+2 Z-40°C/Z+2		
8	Temperature Charac – teristics	Stage Item Performance 2,3 Impedance Ratio less than the value mentior 5 Cap, Change ≤±25% against value in st After the capacitor is held at temperature of each sand reaches temperature stability, measure perform		tage 4 2 -25±3; 3 -25±3; 4 20±2 5 105±2
9	Surge Voltage	Item Perforemance Leakage Current ≤ the initial specified value be Cap, Change ≤ ±15% against value be Dissipation Factor ≤ the initial specified value Appearance No remakable abnormality Test Temp. 15~35°C Test volt. Surge Volt. Voltage apply. 1,000times of chage for 30±5sec, under and discharge for 5min30sec.		fore test ue y Specified in 2

6-2. Characteristics

No.	Item	Performance	Test Method
10	Vibration Resistance	Capacitance Stability required Cap. Change ≤±5% of the initial specifi Appearance No remarkable abnormali Frequency: 10~55Hz/1min. Width of vibrat Y and Z directions, each for 2 hours (Total	ty tion, 1.5mm Direction and duration X,
11	Solderbility	3/4 area of surrounding directions of surface should be covered with new solder.	Solder: Sn-Ag, Sn-Cu Type Soldering Temp: 240±5°C Dipping degree: 2~2.5mm Flux: Ethanol solution (JIS K8101) or Isopropylalchol (JIS K8839) solution of Rosin (JIS K5902)
12	Resistance to Soldering	Leakage Current ≦ Initial specified value Cap. Change ≦ ± 10% of initial value Dissipation Factor ≦ Initial specified in value Appearance No remarkable abnormality	Soldering Temp. 280±5°C Soldering Time . 10±1sec.
13	Resistance to Humidity	Leakage Current ≦ Initial specified value Cap. Change ≦±15% of initial value Dissipation Factor ≦ Initial spesified value Appearance No remarkable abnormality	Test Temp.: $40\pm2^{\circ}\text{C}$ Humidity $90\sim95\%$ Test Time: 500 ± 8 hours After the above condition,restored to normal temp, and then measured.
14	Perssure valve moment charact- erstics	There must not be thing ignition, scattering the resolution that that case works safely	Domethod: impress the reverse voltage and of 1A, I cancel an electric current.

7 Packing method

Packaging shape, size, quantity



Component	Quanity
size	per
6*7	24000pcs.

8 Related Standards JIS C 5141

9 Marking on packing box

- 1 Item name
- 2 Series name
- 3 Rated Voltage
- 4 Nominal Static Capacitance
- 5 Case size
- 6 Lot No.
- 7 Quantity

10 Soldeing

10-1 Soldering by soldering iron

Temperature of iron top: 270~350°C

Operating time: within 3 sec.

10-2 Flow soldering.

Preheat: PCB surface temperature 120°C±5°C

Solder Temp: 260°C±5°C Solder Dipping Temp.: 2~4sec.

11 Cleaning of PC boad after soldering

Using follwing solvents is possible but make sure following condition Solvent

IPA or Alcoholic agent like Pinealpha ST-100S, Cleanthrough 750H, 750L, 710M, 750K, or Technocare FRW-14~17

- ① Cleaning should be made by ultrasonic within 5min, at the temperature less then 60°C.
- ② Control of pollution is necessary (conductivity,pn, specific gravity, size.

 ③ Please do not keep near cleaning agent. Please do not store in air-tight container. Please let it dry by hot air at the temperature less than maximum operating temp.

12 The situation of using

Please do not use a condenser in the next use environment.

- 1 One circumference environment(weatherability) condition.
- (a) Direct water, salt water and environment oil works or become a dew condensation state.
- (b) Environment full of harmful gas (a hydrogen chloride, sulfurous acid. nitrous acid hydrochloric acid, ammonia).
- (c) Ozone, infrared rays and the environment where radioactive rays are done collation of
- 2 Vibration shock condition is extreme environment more than rule ranges of delivery specifications.

13 A country of origin

A country of origin of an SHC series alminum electrolysis condenser of specifications: China

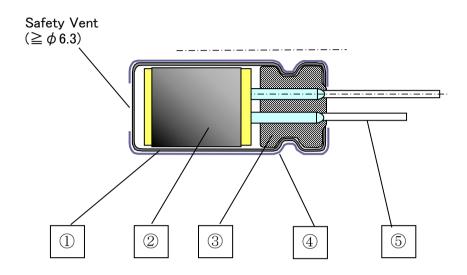
14 Effective life for storage

Storage conditions:

- 1 Temperature range must be between 5-35°C
- 2 Relative humidity must be less than 75%
- 3 Must be stored indoor
- 4 Must be free from water, oil or salt water
- (5) Must be free from toxic gasses (hydrogen sulfide, sulfurous acid, chlorine, ammonium, etc.)
- 6 Must be free from ozone, ultraviolet rays or any other radiation
- 7 Must be kept in capacitor original package
- I Storage life is 12 months for capacitor of rated voltage \leq 160V
- II Storage life is 6 months for capacitor of rated voltage ≥ 200V

No,KNS-2003001 (4/5)

Aluminum Electrolytic Capacitor SHC Series Structure



No.	Name	Material
1	Case	Aluminum
	Element (Electrode)	High Purity Aluminum foil
2	(Separator)	Manila hemp pulp
	(Electrolyte)	
3	Rubber Bung	Synthetic Rubber
4	Sleeve	PET
⑤	Lead Wire	Tin plated Steel Wire

Controls of ozone layer destructive chemical materials

Regulated materials: CFCs, Halon, Carbon Tetrachloride, 1.1.1-Trichloroethane The products and parts do not include the above materials

The products and parts are not used the above materials on process.

The products and parts are not used PBBOs (Poly Bromo Bi-phenyl Oxides).

All materials are mentioned as existing chemical material in the "Law of examine and control of Production of Chemical Material"

The products are not listed in Appendix 1 of Export Trade Rule and Regulation

A condenser of this series supports RoHS regulation.