KNSCHA 东莞市科尼盛电子有限公司

规格承认书

Specification for approval

客户名称:

深圳市立创电子商务有限公司

(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:

01EC6706

(KNSCHA number)

01EC6706

型号规格:

KNSCHA SHC 35V470μF Φ8*16L

(Specifications)

KNSCHA SHC 35V470μF Φ8*16L

制造						
(Manufacture)				
	Approval					
拟制	审核	核准				
(Fiction)	(Chief)	(Approval)				
	工程课*					
刘淑芬	刘军军	徐贵南				

	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

1	Item Name	Rating	Case size	KNSCHA LifeTime
ı	01EC6706	SHC35V470 μ F	Ф8 * 16L	2000Hours

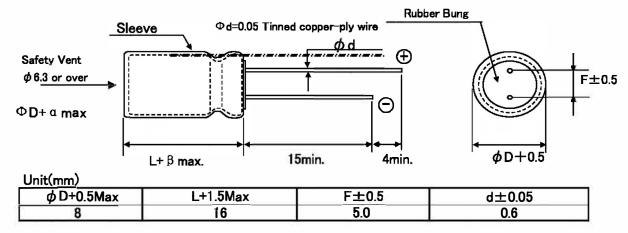
1. Operating Temp. Range

-40°C	~	+ 105°C	
40 C	. •	1000	

2. Electrical Characteristics

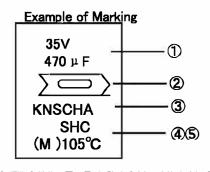
Rated Voltage VDC	Surge Voltage VDC	Nominal Static Capacitance (μF)	Tolerance on Capacitance(%) 20°C 120Hz	Dissipation Factor (tan δ)max 20°C 120Hz		Permissible Ripple Current (mArms)max 105°C120Hz
35	44	470	-20 ~ +20	0.12	164.5	1030

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

Freq.(Hz)	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

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

6. Characteristics

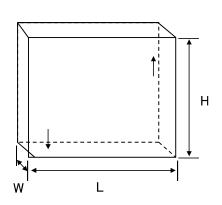
No.	Item	Performance	Test Method
1	Leakage Current	I= 164.5 μA (I=0.01CV) I= Max Leakage Current C=Ctatic Capacitor: V=Rated Voltage	Protection Resistor : $1000\pm10\Omega$ Applied Volt : Rated Voltage Mesauring time : 2 minutes
2	Static Capacitance	376 \sim 564 μF	Measured Frequency : 120Hz±20% Measured Voltage ≤ 0.5Vrms, 1.5 ~ 2.0VDC
3	Dissiption Factor (tan δ)	0.12 and Under	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	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 No voltage applied Test Time :1000 hours +24, −0 hurs
6	Terminal Strength	Tensile Strength 45N {4.5kg} Bending Strength 25N {2.5kg}	Keeping time Tensile 1~5sec Bending 30±5sec
7	Impedance Ratio	W V 35 Z-25°C/Z+20°C 2 Z-40°C/Z+20°C 3	
8	Temperature Charac – teristics	Stage Item Performance 2,3 Impedance Ratio less than the value mention 5 Cap, Change ≤±25% against value in standard reaches temperature stability, measure performance	tage 4 2 -25±3; 3 -25±3; 4 20±2 5 105±2
9	Surge Voltage	Item Perforemance Leakage Current ≤ the initial specified val Cap, Change ≤ ±15% against value be Dissipation Factor ≤ the initial specified val Appearance No remakable abnormalit Test Temp. 15~35°C Test volt. Surge Volt. Voltage apply. 1,000times of chage for 30±5sec, under and discharge for 5min30sec.	ofore test ue cy Specified in 2

6-2. Characteristics

No.	Item	Performanc	е	Test Method
10	Vibration Resistance	Cap. Change $\leq \pm 5\%$ Appearance No re		ty ion, 1.5mm Direction and duration X,
11	Solderbility	3/4 area of surrounding directi should be covered with new so		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 spe Cap. Change ≦±10% of i Dissipation Factor ≦ Initial spe Appearance No remarka	nitial value	Soldering Temp. 280±5℃ Soldering Time . 10±1sec.
13	Resistance to Humidity	Leakage Current ≦ Initial spec Cap. Change ≦±15% of ir Dissipation Factor ≦ Initial spec Appearance No remarkab	itial value	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 that that case were	_	Dcmethod: impress the reverse voltage and of 1A, I cancel an electric current.

7 Packing method

5-1 Packaging shape, size, quantity



Component	Quanity	
size	per	
8*16	16000pcs	

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

8-1 Soldering by soldering iron

Temperature of iron top: 270~350°C

Operating time: within 3 sec.

8-2 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,pH, specific gravity, water volume)
- 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

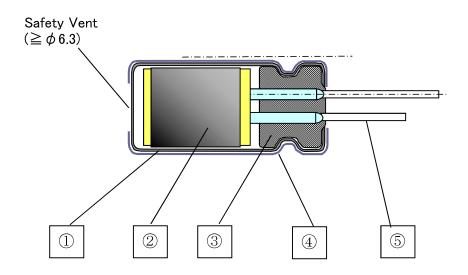
A country of origin of an SHC series alminum electrolysis condenser of specifications: China

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
- Must be kept in capacitor original package
- I Storage life is 12 months for capacitor of rated voltage ≤ 160V
- II Storage life is 6 months for capacitor of rated voltage ≥ 200V

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.