KNSCHA        全球高端电容器制造商		i科尼盛				
S	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 El	ectrolytic Capac	itor			
客户料号:						
(Customer part number)						
科尼盛料号:	01EC1230					
(KNSCHA number)	01EC1230					
型号规格:	KNSCHA SHC 35V220µF Ф8*12L					
(Specifications)	KNSCHA S	HC 35V220µF	Ф8*12L			
制造			客户			
<u>(Manufacture</u> ) Approval	)	(Customer) Approval				
	核准	检验	审核	核准		
(Fiction) (Chief)	(Approval)	(Inspect)	(Chief)	(Approval)		
刘淑芬刘军军						
东莞市科尼盛电子有限公司 DONG GUAN KNSCHA ELECTRONICS CO.,LTD. No. The 8th Floor, A3 Building, R&D Center (Phase I),						
Conschen Lake Tetalling (1)	- II. II H					
Songshan Lake Intelligent V TEL:0769-83698067 810355		own, Dongguan AX: 0769-838615	<u></u>			

### SHC Series

### **Aluminum Electrolytic Capacitors**

Item Name	Rating	Case size	KNSCHA Lifetime
01EC1230	SHC35V220 μ F	Ф8*12L	2000 hours

#### 1. Operating Temp. Range

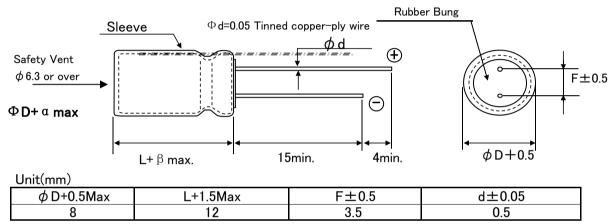
-40°C ~ +105°C

#### 2. Electrical Characteristics

[Table 1]

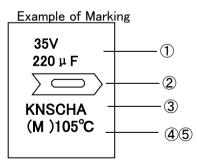
Surge Voltage VDC	Rated Voltage VDC	Nominal Static Capacitance ( µ F)		Dissipation Factor (tan δ )max 20°C 120Hz	Leakage Current 5min. 20°C ( µ A)max	Permissible Ripple Current (mArms)max 105°C120Hz
44	35	220	$-20 \sim +20$	0.14	77	280

#### 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

1.65

(4) Symbol of Capacitance Tolerance (M)

1.00

(5) Max Operating Temp.

### **5.MULTIPLIER FOR RIPPLE CURRENT**

2.40

1. Frequency Coefficient

<u>Temperature(°C)</u>

Coefficient

<u> </u>						
	Freq.(Hz) Cap(μF)	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.	2). Temperature Coefficient					
		40	60	70	85	105

2.10

1.78

### 6. Characteristics

No.	Item	Perforr	mance	Test Method
1	Leakage Current	I= 77.0 μA I= Max Leakage Curren C=Ctatic Capacitor: V=		Protection Resistor : $1000\pm10\Omega$ Applied Volt : Rated Voltage Mesauring time : 5minutes
2	Static Capacitance	176 $\sim$ 264 $\mu$ F		Measured Frequency : 120Hz±20% Measured Voltage ≤ 0.5Vrms, 1.5 ~ 2.0VDC
3	Dissiption Factor (tanδ)	0.14 and Under		Same as condition of Capacitors
4	High Temp. Load Charac- teristics			Test Temp.: 105±2°C Applied voltage: Rated voltage Test Time :5,000 hours +72, −0 hours
5	High Temp. no load Charac- teristics	Cap. Change $\leq \pm 2$ Dissipation Factor $\leq 200$	value specified in Table 1 20% of initial value 0% of value specified in Table emarkable abnormality	Test Temp.: 105±2°C No voltage applied Test Time :1000 hours +24, −0 hurs
6	Terminal Strength	<u> </u>	5N {4.5kg} 5N {2.5kg}	Keeping time Tensile 1~5sec Bending 30±5sec
7	Impedance Ratio	W V      35        Z-25°C/Z+20°C      3        Z-40°C/Z+20°C      10		
8	Temperature Charac – teristics	StageItem2,3Impedance Ratio5Cap, ChangeAfter the capacitor is h and reaches temperatu		
9	Surge Voltage	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$		fore test ue y Specified in 2

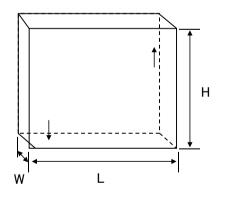
No,KNS-200102001 (2/5)

#### 6-2. Characteristics

No.	Item	Performance	Test Method
10	Vibration Resistance	CapacitanceStability requiredCap. Change≤±5% of the initial specifiAppearanceNo remarkable abnormaliFrequency : 10~55Hz/1min. Width of vibrationY 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 : $240\pm5^{\circ}$ C Dipping degree : $2\sim2.5$ mm Flux : Ethanol solution (JIS K8101) or Isopropylalchol (JIS K8839) solution of Rosin (JIS K5902)
12	Resistance to Soldering	Leakage Current $\leq$ Initial specified valueCap. Change $\leq \pm 10\%$ of initial valueDissipation Factor $\leq$ Initial specified in valueAppearanceNo remarkable abnormality	Soldering Temp. 280±5℃ Soldering Time . 10±1sec.
13	Resistance to Humidity	Leakage Current≦ Initial specified valueCap. Change≦±15% of initial valueDissipation Factor≦ Initial spesified valueAppearanceNo remarkable abnormality	Test Temp. : $40 \pm 2^{\circ}$ C Humidity $90 \sim 95\%$ Test Time : $500 \pm 8$ 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	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*12	16000pcs.

Related Standards JIS C 5141 8

#### Marking on packing box 9

- Item name
  Series name
  Rated Voltage
- (4) Nominal Static Capacitance
- **(5)** Case size
- 6 Lot No.
- O Quantity

#### 10 Soldeing

8–1 Soldering by soldering iron

Temperature of iron top :  $270 \sim 350^{\circ}$ C Operating time : within 3 sec.

8-2 Flow soldering.

Preheat : PCB surface temperature  $120^{\circ}C\pm5^{\circ}C$ Solder Temp :  $260^{\circ}C\pm5^{\circ}C$ Solder Dipping Temp. :  $2\sim4$ sec.

#### 11 Cleaning of PC boad after soldering

Using follwing solvents is possible but make sure followingcondition Solvent

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

- 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

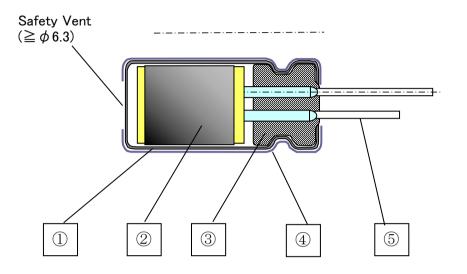
#### 14 Effective life for storage

Storage conditions:

- (1) Temperature range must be between  $5-35^{\circ}$ 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
- O Must be kept in capacitor original package
- I Storage life is 12 months for capacitor of rated voltage  $\leqslant$  160V
- I Storage life is 6 months for capacitor of rated voltage  $\geqslant$  200V

No,KNS-200102001 (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.

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Other Similar products are found below :

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