KNSCHA 全球高端电容器制造商		利尼盛 N KNSCHA EL				
客户名称:	客户名称:					
(Customer Name)						
产品名称:	铝电解电容	铝电解电容				
(Product Name)	Aluninum El	ectrolytic Capaci	tor			
客户料号:						
(Customer part number)					
科尼盛料号:	03EC0519					
(KNSCHA number)	03EC0519					
型号规格:	KNSCHA S	HC 35V1000μF	Φ13*21L			
(Specifications)	KNSCHA S	HC 35V1000μF	Φ13*21L			
制造			客户			
(Manufacture	e)		(Customer)			
拟制 审核 (Fiction) (Chief)	核准 (Approval)	检验 (Inspect)	审 核 (Chief)	核准 (Approval)		
刘淑芬 刘军军 徐贵南 (Inspect) (Inspect) (Inspect)						
东莞市科尼盛电子有限公司						
No. 8th floor, A3 building, R&D center (Phase I),						
Songshan Lake Intelligent Valley, Liaobu Town, Dongguan City						
	TEL:0769-83698067 81035570 FAX: 0769-83861559					
Email : sales@knscha.com Website: http://www.knscha.com						

SHC Series

Aluminum Electrolytic Capacitors

Item Name	Rating	Case size	KNSCHA Lifetime
03EC0519	SHC35V1000 μ F	Φ13*21L	2000 hours

1. Operating Temp. Range

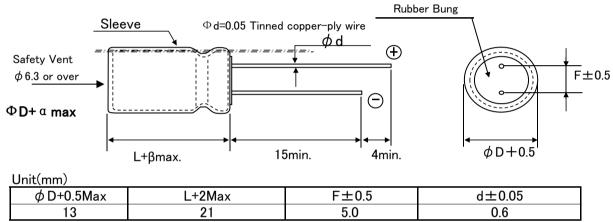
-40°C ~ + 105°C

2. Electrical Characteristics

[Table 1]

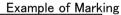
	Startgæd Voolttagge WDDC	Nominal Static Capacitance (μ F)	Tolerance on Capacitance(%) 20°C 120Hz	Dissipation Factor (tan δ)max 20°C 120Hz	Leakage Current 2min. 20°C (µA)max	Permissible Ripple Current (mArms)max 105°C120Hz
35	44	1000	-20~+20	0.12	350	920

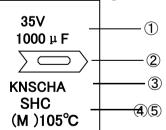
3. Dimensions



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) Cap(μF)	60	120	1K	10K	100K
	0.1-100	0.7	1.00	1.4	1.50	1.50
	100-1000	0.75	1.00	1.3	1.35	1.35
	1000-22000	0.80	1.00	1.12	1.15	1.15
2.	Temperature Coeff	ficient				
	Ambient Temperature(°C)	55	60	70	85	105
	Coefficient	2.20	2.10	2.00	1.75	1.00

6. Characteristics

No.	Item	Perfo	ormance	Test Method
1	Leakage Current	I= 350.0 μA I= Max Leakage Curr C=Ctatic Capacitor:	rent	Protection Resistor : $1000\pm10\Omega$ Applied Volt : Rated Voltage Mesauring time : 2minutes
2	Static Capacitance	800 \sim 1200 μ F		Measured Frequency : 120Hz±20% Measured Voltage ≤ 0.5Vrms, 1.5 ~ 2.0VDC
3	Dissiption Factor (tanδ)	0.12 and Under	r	Same as condition of Capacitors
4	High Temp. Load Charac− teristics	Cap. Change \leq Dissipation Factor \leq	the value specified in Table 1 ±20% of initial value 200% of value specified in Table o 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 o 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} 35N {2.5kg}	Keeping time Tensile 1~5sec Bending 30±5sec
7	Impedance Ratio	W V Z-35°C/Z+2 Z-40°C/Z+2	35 0°C 2 0°C 3	
8	Temperature Charac – teristics	Stage Item Performance 2,3 Impedance Ratio less than the value mention 5 Cap, Change ≤±35% against value i After the capacitor is held at tempereture of each s and reaches temperature stability, measure performance		n stage 4 2 -35±3; 3 -35±3; 4 20±2 tage 5 105±2
9	Surge Voltage	$\begin{tabular}{ ltem ltem ltem ltem Perforemance Leakage Current & the initial specified value of the constraint of the constraint of the initial specified value of the initial$		fore test ue y Specified in 2

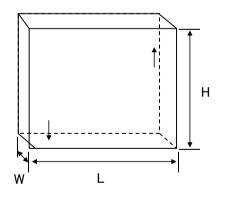
No,KNS-2003001 (2/5)

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 vibratY and Z directions, each for 2 hours (Total	ty ion, 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 \leq Initial specified valueCap. Change $\leq \pm 10\%$ of initial valueDissipation Factor \leq Initial specified in valueAppearanceNo remarkable abnormality	Soldering Temp. 280±5°C Soldering Time . 10±1sec.
13	Resistance to Humidity	Leakage Current \leq Initial specified valueCap. Change $\leq \pm 15\%$ of initial valueDissipation Factor \leq Initial spesified valueAppearanceNo remarkable abnormality	Test Temp. : $40 \pm 2^{\circ}$ C Humidity 90~95% 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

Packaging shape, size, quantity



Component	Quanity
size	per
13*21	4000PCS

Related Standards JIS C 5141 8

Marking on packing box 9

- Item name
 Series name
- ③ Rated Voltage
- (4) Nominal Static Capacitance
- $\check{\mathbf{5}}$ Case size
- 6 Lot No.
- ⑦ 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.

 $\begin{array}{l} \mbox{Preheat: PCB surface temperature } 120^{\circ}\mbox{C}{\pm}5^{\circ}\mbox{C} \\ \mbox{Solder Temp: } 260^{\circ}\mbox{C}{\pm}5^{\circ}\mbox{C} \\ \mbox{Solder Dipping Temp. : } 2{\color{black}{\sim}}4\mbox{sec.} \end{array}$

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

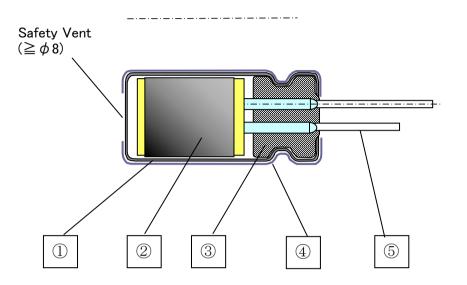
A country of origin of an SHC series alminum electrolysis condenser of specifications: China

14 Effective life for storage

Storage conditions:

- 1 Temperature range must be between 5-35°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

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.

X-ON Electronics

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Other Similar products are found below :

LXY50VB4.7M-5X11 RFO-100V471MJ7P# ECE-A1EGE220 B41041A2687M8 B41041A7226M8 B41044A7157M6 EKXG201EC3101ML20S EKZM160ETD471MHB5D NCD681K10KVY5PF NEV1000M25EF-BULK NEV100M35DC NEV100M63DE NEV220M25DD-BULK NEV.33M100AA NEV4700M50HB NEV.47M100AA NEVH1.0M250AB NEVH3.3M250BB NEVH3.3M450CC KM4700/16 KME50VB100M-8X11.5 SG220M1CSA-0407 ES5107M016AE1DA ESMG160ETD102MJ16S ESX472M16B SZ010M1500A5S-1015 227RZS050M 476CKH100MSA 477RZS050M UVX1V101KPA1FA UVX1V222MHA1CA KME25VB100M-6.3X11 VTL100S10 VTL470S10 VTL470S16A 511D336M250EK5D 052687X ECE-A1CF471 EKMA500ELL4R7ME07D NRE-S560M16V6.3X7TBSTF RGA221M1CTA-0611G ERZA630VHN182UP54N UPL1A331MPH SK035M0100AZS-0611 MAL214658821E3 NEV1000M6.3DE NEV100M16CB NEV100M50DD-BULK NEV2200M16FF NEV220M50EE