KNSCH 全球高端电容器制					
	规格承认书 Specification for approval				
客户名称:					
(Customer Name	e)				
产品名称:	铝电解电容	铝电解电容			
(Product Name) Aluminum El	ectrolytic Capad	citor		
客户料号:					
(Customer part nun	nber)				
科尼盛料号:	SHC400V6	5.8UF03EC16	36		
(KNSCHA numbe	er)				
型号规格:	KNSCHA SH	łC 400V6.8μF	Φ8*12L L=3	.5±0.5mm	
(Specifications)) KNSCHA SH	IC 400V6.8μF	Ф8*12L L=3	.5±0.5mm	
	造		客 户 (Customer)		
(Manufa Appro		(Customer) Approval			
	核核化	检验	审核	核准	
(Fiction) (Chi		(Inspect)	(Chief)	(Approval)	
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刘淑芬刘军	军徐贵南				
东莞市科尼盛电子有限公司					
DONG GUAN KNSCHA ELECTRONICS CO.,LTD.					
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
SHC400V6.8UF03EC1636	SHC 400V6.8 μ F	Φ8*12L	5000 hours

1. Operating Temp. Range

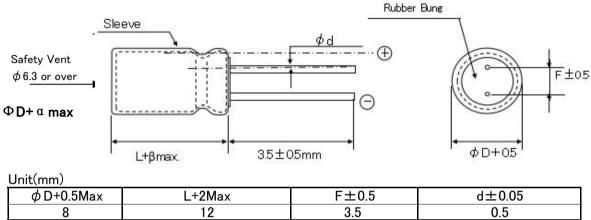
-40°C ~ + 105°C

2. Electrical Characteristics

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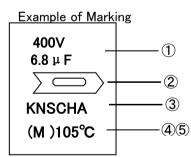
Lighter 1						
Rated Voltage VDC	Surge Voltage VDC	Nominal Static Capacitance (<i>μ</i> F)	Tolerance on Capacitance(%) 20°C 120Hz	Dissipation Factor (tanδ)max 20°C 120Hz		Permissible Ripple Current (mArms)max 105°C100KHz
400	450	6.8	-20~+20	0.20	54.4	85

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

U.	Frequency Coemic	ient				
	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.	Temperature Coef	ficient				
	Ambient Temperature(°C)	40	60	70	85	105
	Coefficient	2.40	2.10	1.78	1.65	1.00

6. Characteristics

No.	Item	Performa	ince	Test Method
1	Leakage Current	I= 54.4 μA () I= Max Leakage Current C=Ctatic Capacitor: V=Ra		Protection Resistor : $1000\pm10\Omega$ Applied Volt : Rated Voltage Mesauring time : 2minutes
2	Static Capacitance	5.44 \sim 8.16 μF		Measured Frequency : 120Hz±20% Measured Voltage ≤ 0.5Vrms, 1.5 ~ 2.0VDC
3	Dissiption Factor (tanδ)	0.20 and Under		Same as condition of Capacitors
4	High Temp. Load Charac- teristics	Cap. Change $\leq \pm 20\%$ Dissipation Factor $\leq 200\%$	alue specified in Table 1 6 of initial value of value specified in Table arkable abnormality	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 $\leq \pm 20\%$ Dissipation Factor $\leq 200\%$	alue specified in Table 1 6 of initial value of value specified in Table arkable abnormality	Test Temp.: 105±2°C No voltage applied Test Time :1000 hours +24, -0 hurs
6	Terminal Strength		I {4.5kg} I {2.5kg}	Keeping time Tensile 1~5sec Bending 30±5sec
7	Impedance Ratio	W V Z-25°C/Z+20°C Z-40°C/Z+20°C	400 4 10	
8	Temperature Charac – teristics	Stage Item Performance 2,3 Impedance Ratio less than the value mention 5 Cap, Change ≤±25% against value in st After the capacitor is held at tempereture of each stand reaches temperature stability, measure perform		age 4 2 -25±3; 3 -25±3; 4 20±2 tage 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, unit nd discharge for 5min30sec. 1		fore test le y pecified in 2

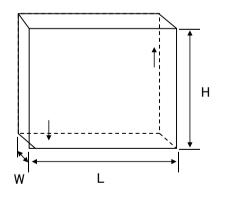
No,KNS-1809150001 (2/5)

6-2. Characteristics

No.	Item	Performance	Test Method
10	Vibration Resistance	CapacitanceStability requiredCap. Change $\leq \pm 5\%$ of the initial specifiAppearanceNo remarkable abnormaliFrequency : $10 \sim 55$ Hz/1min. Width of vibratY 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 \leq Initial specified valueCap. Change $\leq \pm 10\%$ of initial valueDissipation Factor \leq Initial specified in valueAppearanceNo remarkable abnormality	Soldering Temp. 260±5°C Soldering Time . 3~5sec. Printed wiring board:≥1.6mm
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 $90 \sim 95\%$ 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	Dcmethod: impress the reverse voltage and of 1A, I cancel an electric current.

7 Packing method

Packaging shape, size, quantity



Com	ponent	Quanity
5	size	per
8	*12	16000pcs.

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

10–1 Soldering by soldering iron

Temperature of iron top : $270 \sim 350^{\circ}$ 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 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

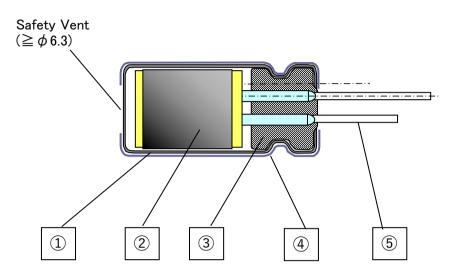
14 Effective life for storage

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 $\geqslant 200 V$

No,KNS-1809150001 (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.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Aluminium Electrolytic Capacitors - Radial Leaded category:

Click to view products by KNSCHA manufacturer:

Other Similar products are found below :

LXY50VB4.7M-5X11 RFO-100V471MJ7P# ECE-A1EGE220 B41041A7226M8 B41044A7157M6 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 227RZS050M 476CKH100MSA 477RZS050M UVX1V101KPA1FA UVX1V222MHA1CA KME25VB100M-6.3X11 VTL100S10 VTL470S10 VTL470S16A 511D336M250EK5D 052687X ECE-A1CF471 NRE-S560M16V6.3X7TBSTF RGA221M1CTA-0611G ERZA630VHN182UP54N UPL1A331MPH SK035M0100AZS-0611 MAL214658821E3 NEV1000M6.3DE NEV100M16CB NEV100M50DD-BULK NEV2200M16FF NEV220M50EE NEV2.2M50AA NEV330M63EF NEV4700M35HI NEV4.7M100BA