	KNSCHA 东莞市科尼盛电子有限公司 ^{x 高 端 电 容 器 制 造 商 DONGGUAN KNSCHA ELECTRONICS CO., LTD.}					
	规格承认书					
Specification for approval						
客户	客户名称:					
(Custom	er Name)					
产品	名称:	铝电解电容				
(Produc	t Name)	Aluninum E	lectrolytic Capa	icitor		
客户	\$ 号 :					
(Customer p	oart number)					
科尼亞	盛料号:	01EC138	5			
(KNSCHA	A number)	01EC1385				
	观格:	KNSCHA SHG 16V100μF Φ5*11L				
(Specifi	ications)	KNSCHAS	SHG 16V100μ	F Φ5*11L		
	制造			客户		
(Manufacture))	(Customer)			
	Approval	+* \#	Approval		+* \+	
拟制 (Fiction)	审核 (Chief)	核 在 (Approval)	检验 (Inspect)	审 核 (Chief)	核 准 (Approval)	
刘淑芬						
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.						
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SHG Series

Aluminum Electrolytic Capacitors

Item Name	Rating	Case size	KNSCHA Lifetime
01EC1385	SHG16V100 μ F	Φ5*11L	7000 hours

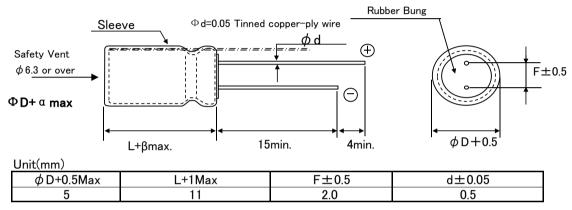
1. Operating Temp. Range

-55°C ~ + 105°C

2. Electrical Characteristics

S Table 1	ee 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℃ 120Hz	2min. 20°C		Impedance(Ω) 100KHZ 20°C
16	20	100	-20~+20	0.16	16	170	0.7

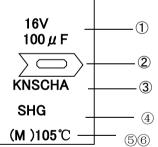
3. Dimensions



4. Marking

Following items are printed with white color on coffee color sleeve

Example of Marking



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

		~ ~
5.MULTIPLIER	FOR RIPPLE	CURRENT

1. Frequency Coefficient

	Freq.(Hz) Cap(μF)	60 (50)	120	1K	10K	100K
	0.1-47	0.75	0.80	0.85	0.90	1.00
	68-680	0.80	0.85	0.90	0.95	1.00
	1000-22000	0.85	0.87	0.89	0.92	1.00
2.	Temperature Coeff	ficient				
	Ambient Temperature(°C)	40	60	70	85	105
	Coefficient	2.40	2.10	1.78	1.65	1.00

No,KNS-2003001 (1/5)

6. Characteristics

No.	Item	Perform	ance	Test Method
1	Leakage Current	I= 16.0 μΑ I= Max Leakage Current C=Ctatic Capacitor: V=F		Protection Resistor : $1000\pm10\Omega$ Applied Volt : Rated Voltage Mesauring time : 2minutes
2	Static Capacitance	80 \sim 120 μ F		Measured Frequency : 120Hz±20% Measured Voltage ≤ 0.5Vrms, 1.5 ~ 2.0VDC
3	Dissiption Factor (tanδ)	0.16 and Under		Same as condition of Capacitors
4	High Temp. Load Charac- teristics	Cap. Change $\leq \pm 20$ Dissipation Factor $\leq 200\%$	value specified in Table 1 0% of initial value % of value specified in Table markable abnormality	Test Temp.: 105±2°C Applied voltage: Rated voltage Test Time :10,000 hours +72, −0 hours
5	High Temp. no load Charac- teristics	Cap. Change $\leq \pm 20$ Dissipation Factor ≤ 2009	value specified in Table 1 D% of initial value % of value specified in Table markable abnormality	Test Temp.: 105±2°C No voltage applied Test Time :1000 hours +24, -0 hurs
6	Terminal Strength		iN {4.5kg} iN {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	16 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 st and reaches temperature stability, measure perform		age 4 2 -25±3; 3 -25±3; 4 20±2 tage 5 105±2
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 pecified in 2

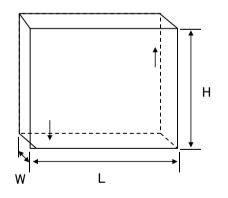
No,KNS-2003001 (2/5)

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 vibrativeY 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. 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 $90 \sim 95\%$ 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



Component	Quanity
size	per
5*11	40000pcs.

Related Standards JIS C 5141 8

Marking on packing box 9

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

10 Leakage

current <Condition>

Connecting the capacitor with a protective resistor $(1k\Omega \pm 10\Omega)$ in series for

2 minutes, and then, measure leakage current.

<Criteria

I : Leakage current ($\mu A)$ I ($\mu A){\leq}0.02CV{+}15~(\mu A)$ whichever is greater,

measurement circuit refer to right drawing. C: Capacitance (μF)

11 Soldeing

- 11-1 Soldering by soldering iron Temperature of iron top : 270~350°C Operating time : within 3 sec.
- 11−2 Flow soldering. Preheat : PCB surface temperature 120°C±5°C Solder Temp : 260°C±5°C Solder Dipping Temp. : 2~4sec.

12 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.

13 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).
- (\underline{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.

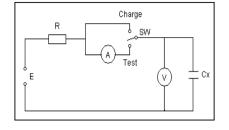
14 A country of origin

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

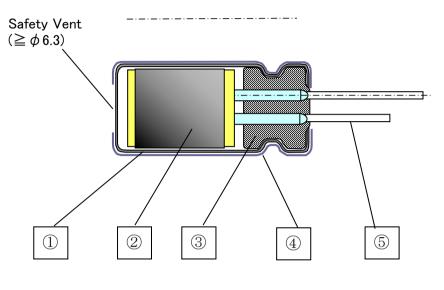
15 Effective life for storage

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
- T Must be kept in capacitor original package



Aluminum Electrolytic Capacitor SHG 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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