KNSCHA 全球高端电容器制造商 东莞市科尼盛电子有限公司 DONGGUAN KNSCHA ELECTRONICS CO., LTD.					
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 Ele	ectrolytic Capaci	itor		
客户料号:					
(Customer part number)					
科尼盛料号:	01EC1830				
(KNSCHA number)	01EC1830				
型号规格:	KNSCHA SH	HG 50V33μF Φ	95*11L		
(Specifications)	KNSCHA SH	HG 50V33μF Φ	5*11L		
制造			客户		
(Manufacture))		(Customer)		
Approval 拟制 审核	核 准	检验	Approval 审核	核准	
(Fiction) (Chief)	(Approval)	(Inspect)	(Chief)	(Approval)	
刘淑芬 刘军军 徐贵南					
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Email : sales@knscha.com Website: http://www.knscha.com					

SHG Series

Aluminum Electrolytic Capacitors

Item Name	Rating	Case size	KNSCHA Lifetime
01EC1830	SHG50V33 μ F	Φ5*11L	7000hours

1. Operating Temp. Range

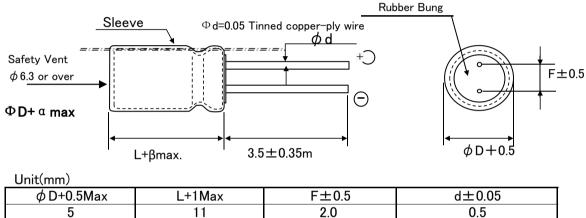
−55°C ~ +105°C

2. Electrical Characteristics See Table 1.

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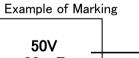
							-	
	Rated Voltage VDC	Surge Voltage VDC	e	Tolerance on Capacitance (%) 20°C 120Hz	(tan 0)max 20°⊂ 120⊔-		Permissible Ripple Current (mArms)max 105°C100KHz	Impedance(Ω) 100KHZ 20°C
ſ	50	63	33	$-20 \sim +20$	0.10	16.5	150	2.5

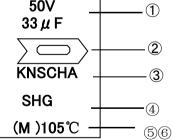
3. Dimensions



4. Marking

Following items are printed with white color on coffee color sleeve





① Rated voltage & Nominal Capacitance

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

5.MULTIPLI	ER FOR RIF	PLE 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 Coeffic	ient				
	Ambient Temperature(°C)	40	60	70	85	105
	Coefficient	2.40	2.10	1.78	1.65	1.00

6. Characteristics

No.	Item	Perform	nance	Test Method
1	Leakage Current	I= 16.5 μA I= Max Leakage Curren C=Ctatic Capacitor: V=	t	Protection Resistor : $1000\pm10\Omega$ Applied Volt : Rated Voltage Mesauring time : 2minutes
2	Static Capacitance	26.4 \sim 39.6 μ F		Measured Frequency : 120Hz±20% Measured Voltage ≤ 0.5Vrms, 1.5 ~ 2.0VDC
3	Dissiption Factor (tanδ)	0.10 and Under		Same as condition of Capacitors
4	High Temp. Load Charac- teristics	Cap. Change $\leq \pm 2$ Dissipation Factor ≤ 200	value specified in Table 1 20% of initial value 2% of value specified in Table 20% 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 $\leq \pm 2$ Dissipation Factor ≤ 200	value specified in Table 1 10% of initial value 1% 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		5N {4.5kg} 5N {2.5kg}	Keeping time Tensile 1~5sec Bending 30±5sec
7	Impedance Ratio	W V 50 Z-25°C/Z+20°C 3 Z-40°C/Z+20°C 8		
8	Temperature Charac – teristics	Stage Item Performance 2,3 Impedance Ratio less than the value mentior 5 Cap, Change ≤±25% against value in st After the capacitor is held at tempereture of each s and reaches temperature stability, measure perform		age 4 2 -25±3; 3 -25±3; 4 20±2 5 105±2
9	Surge Voltage	ItemPerforemanceLeakage Current \leq the initial specified valueCap, Change $\leq \pm 15\%$ against value beDissipation Factor \leq the initial specified valueAppearanceNo remakable abnormalitTest Temp. 15~35°CTest volt. Surge Volt.SVoltage apply.1,000times of chage for 30±5sec, undand discharge for 5min30sec.		fore test ue y pecified in 2

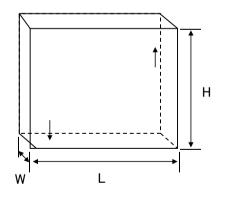
No,KNS-202002130001 (2/5)

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 vibratiY 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≦ 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 ± 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

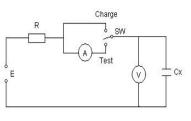
2 minutes, and then, measure leakage currer

<Criteria

I : Leakage current (μA)

I (μA) \leq 0.01CVor 3 (μA) whichever is greater,

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



11 Soldeing

11-1 Soldering by soldering iron

Temperature of iron top : $270 \sim 350^{\circ}$ 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).
- $(\underbrace{ \mathsf{c} })$ 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

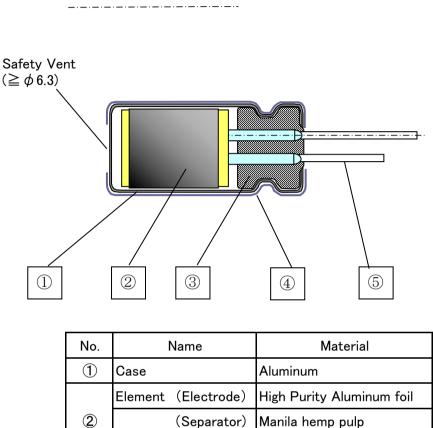
A country of origin of an KNSCHA SHG series alminum electrolysis condenser of specifications: China

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
- \bigcirc Must be kept in capacitor original package

Aluminum Electrolytic Capacitor SHG Series Structure



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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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