KNSCHA 东莞市科尼盛电子有限公司

规格承认书

Specification for approval

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(Customer Name)

产品名称: 铝电解电容

(Product Name)

Aluminum Electrolytic Capacitor

客户料号:

(Customer part number)

科尼盛料号:

SHW1000UF6.3V6.3X11

(KNSCHA number)

型号规格:

KNSCHA SHW 6.3V1000μF Φ6.3*11L

(Specifications)

KNSCHA SHW 6.3V1000μF Φ6.3*11L

制造							
(1	Manufacture))					
	Approval						
拟制	拟制 审核 核准						
(Fiction)	(Fiction) (Chief)						
	本 工程课》						
刘淑芬	刘军军	徐贵南					

	客户					
(Customer)						
	Approval					
检 验	审 核	核准				
(Inspect)	(Chief)	(Approval)				

东莞市科尼盛电子有限公司

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Aluminum Electrolytic Capacitors

Item Name	Rating	Case size	KNSCHA Lifetime
SHW1000UF6.3V6.3X11	SHW6.3V1000 μ F	Ф6.3*11L	8000 hours

1. Operating Temp. Range

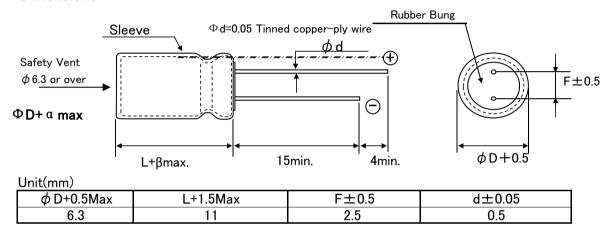
−40°C	~	+ 105℃	

2. Electrical Characteristics

See Table 1.

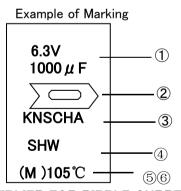
[lable l							
Rated Voltage VDC	Surge Voltage VDC	Nominal Static Capacitance $(\mu \mathrm{F})$		Dissipation Factor (tan δ)max 20°C 120Hz		Permissible Ripple Current (mArms)max 105°C100KHz	Impedance(mΩ) 100KHZ 20 °C
6.3	8	1000	-20 ~ +20	0.20	63	1900	0.36

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.MULTIPLIER FOR RIPPLE CURRENT

1. Frequency Coefficient

Freq.(Hz)	120Hz	1KHz	10KHz	100KHz
Cap(<i>μ</i> F)	0.65	0.90	0.95	1.00

2. Temperature Coefficient

Temperature Odernolent							
Ambient Temperature(°C)	40	60	70	85	105		
Coefficient	2.40	2.10	1.78	1.65	1.00		

6. Characteristics

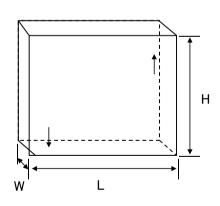
No.	Item	F	erform	nance			Test Method
1	Leakage Current	I= 63.0 I= Max Leakage C=Ctatic Capac			oltage/		Protection Resistor : 1000±10Ω Applied Volt : Rated Voltage Mesauring time : 2minutes
2	Static Capacitance	800 ∼ 1200	μF				Measured Frequency : 120Hz±20% Measured Voltage ≤ 0.5Vrms, 1.5 ~ 2.0VDC
3	Dissiption Factor (tanδ)	0.20 and U	nder				Same as condition of Capacitors
4	High Temp. Load Charac- teristics	Leakage Current Cap. Change Dissipation Factor Appearance	Change $≤ ±20\%$ of initial value ation Factor $≤ 200\%$ of value specified in Table			Test Temp.: 105±2°C Applied voltage: Rated voltage Test Time:8,000 hours +72, -0 hours	
5	High Temp. no load Charac- teristics	Leakage Current Cap. Change Dissipation Factor Appearance	Change ≤ ±20% of initial value ation Factor ≤200% of value specified in Table				Test Temp.: 105±2°C No voltage applied Test Time:10000 hours +24, -0 hurs
6	Terminal Strength	Tensile Strength Bending Strength		5N {4.5 5N {2.5			Keeping time Tensile 1∼5sec Bending 30±5sec
7	Impedance Ratio	Z(-25°C) / Z(-40°C) /	/Z(+20°		6.3 3 10		
8	Temperature Charac – teristics	2,3 Impedance Ration 5 Cap, Change After the capac	2,3 Impedance Ratio less than the value mention		tage 4 2 -25±3; 3 -40±3; 4 20±2 stage 5 105±2		
9	Surge Voltage	Cap, Change Dissipation Fa Appearance Test Temp. 15~35° Voltage apply. 1,00°	Item Perforemance Leakage Current ≤ the initial specified value Cap, Change ≤ ±15% against value be Dissipation Factor ≤ the initial specified value Appearance No remakable abnormality		efore test lue ty Specified in 2		

6-2. Characteristics

No.	Item	Performance	Test Method
10	Vibration Resistance	Capacitance Stability required Cap. Change ≤±5% of the initial specifi Appearance No remarkable abnormali Frequency: 10∼55Hz/1min. Width of vibraty Y 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 ≦ Initial specified value Cap. Change ≦ ± 10% of initial value Dissipation Factor ≦ Initial specified in value Appearance No remarkable abnormality	Soldering Temp. 260±5°C Soldering Time . 3~5sec. Printed wiring board:≥1.6mm
13	Resistance to Humidity	Leakage Current ≦ Initial specified value Cap. Change ≦ ± 15% of initial value Dissipation Factor ≦ Initial spesified value Appearance No remarkable abnormality	Test Temp. : $40\pm2^{\circ}\text{C}$ Humidity $90\sim95\%$ 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	Domethod: impress the reverse voltage and of 1A, I cancel an electric current.

7 Packing method

7-1 Packaging shape, size, quantity



Component	Quanity
size	per
6.3*11	24000pcs.

8 Related Standards JIS C 5141

9 Marking on packing box

- 1 Item name
- 2 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 $(1k\Omega\pm10\Omega)$ in series for

2 minutes, and then, measure leakage currer

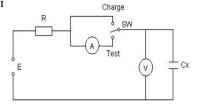
<Criteria

I : Leakage current (μA)

I (μ A) \leq 0.01CVor 3 (μ 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. : 3~5sec.

12 Cleaning of PC boad after soldering

Using follwing solvents is possible but make sure following condition Solvent

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

- 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).
- (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

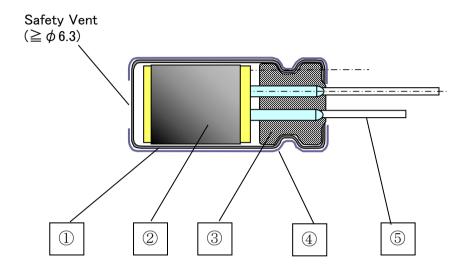
A country of origin of an KNSCHA SHG series alminum electrolysis condenser of specifications: China

15 Effective life for storage

Storage conditions:

- 1 Temperature range must be between 5-35°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
- 7 Must be kept in capacitor original package

Aluminum Electrolytic Capacitor SHW 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	
Ī	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.