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)

Aluminum Electrolytic Capacitor

客户料号:

(Customer part number)

科尼盛料号:

SHG63V10UF03EC0822

(KNSCHA number)

SHG63V10UF03EC0822

型号规格:

KNSCHA SHG 63V10μF Φ5*11L L=3mm

KNSCHA SHG 63V10μF Φ5*11L L=3mm

(Specifications)

制造					
	Manufacture	e)			
	Approval				
拟制	审 核	核准			
(Fiction)	(Chief)	(Approval)			
刘淑芬	文儿车车	徐员南			

	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

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



Aluminum Electrolytic Capacitors

Item Name	Rating	Case size	KNSCHA Lifetime
SHG400V10UF01EC6917	SHG63V10 <i>μ</i> F	Φ5*11L	3000 hours

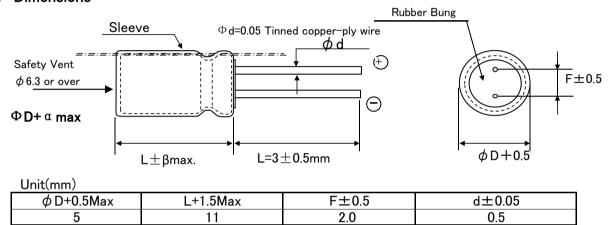
1. Operating Temp. Range

−40°C	~	+ 105℃	

2. Electrical Characteristics See Table 1.

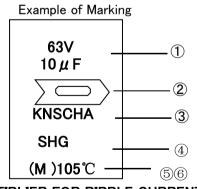
[lable l]							
Rated Voltage VDC	Surge Voltage VDC	Nominal Static Capacitance (μ F)	Tolerance on Capacitance (%) 20°C 120Hz	Dissipation Factor (tan δ)max 20°C 120Hz		Permissible Ripple Current (mArms)max 105°C100KHz	Impedance(Ω) 100KHZ 20°C
63	79	10	$-20 \sim +20$	0.08	6.3	130	1.9

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

Troquency coemicione						
Freq.(Hz) Cap(μ F)	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 Coefficient						
Ambient	40	60	70	85	105	
Temperature(°C)						
Coefficient	2.40	2.10	1.78	1.65	1.00	

6. Characteristics

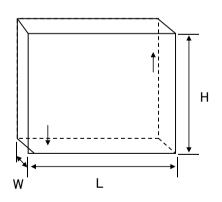
No.	Item	P	erforman	nce	Test Method
1	Leakage Current	I= 6.3 I= Max Leakage (C=Ctatic Capaci	Current	ed Voltage	Protection Resistor : 1000±10Ω Applied Volt : Rated Voltage Mesauring time : 2minutes
2	Static Capacitance	8 \sim 12	μF		Measured Frequency : 120Hz±20% Measured Voltage ≤ 0.5Vrms, 1.5 ~ 2.0VDC
3	Dissiption Factor (tanδ)	0.08 and Ur	nder		Same as condition of Capacitors
4	High Temp. Load Charac- teristics	Leakage Current Cap. Change Dissipation Factor Appearance	Change $\leq \pm 20\%$ of initial value pation Factor $\leq 200\%$ of value specified in Table		Test Temp.: 105±2°C Applied voltage: Rated voltage Test Time 3,000 hours +72, -0 hours
5	High Temp. no load Charac- teristics	Leakage Current Cap. Change Dissipation Factor Appearance	≦±20% of ≦200% of	ue specified in Table 1 of initial value f value specified in Table rkable abnormality	Test Temp.: 105±2°C No voltage applied Test Time :1000 hours +24, -0 hurs
6	Terminal Strength	Tensile Strength Bending Strength		{4.5kg} {2.5kg}	Keeping time Tensile 1∼5sec Bending 30±5sec
7	Impedance Ratio	Z-25°C/Z Z-40°C/Z	Z+20°C	63 2 3	
8	Temperature Charac – teristics	2,3 Impedance Ratio 5 Cap, Change After the capacit	2,3 Impedance Ratio less than the value mention		lage 4 2 -25±3; 3 -25±3; 4 20±2 5 105±2
9	Surge Voltage	Cap, Change Dissipation Fact Appearance Test Temp. 15~35°0 Voltage apply. 1,000	Leakage Current≤ the initial specified valueCap, Change≤ $\pm 15\%$ against value beDissipation Factor≤ the initial specified value		fore test ue y Specified in 2

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 ≦ 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. : $40\pm2^{\circ}$ 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	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.

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 current.

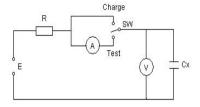
<Criteria

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.: 2~4sec.

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 $\sim\!17$

- 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).
- (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

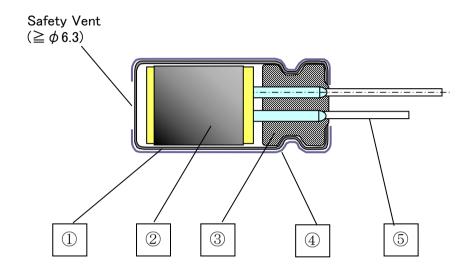
15 Effective life for storage

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
- 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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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 1814181 NCD681K10KVY5PF NEV1000M25EF-BULK NEV100M35DC

NEV100M63DE NEV220M25DD-BULK NEV.33M100AA NEV4700M50HB NEV.47M100AA NEVH1.0M250AB NEVH3.3M250BB

NEVH3.3M450CC KME50VB100M-8X11.5 SG220M1CSA-0407 ES5107M016AE1DA ESX472M16B 476CKH100MSA 477RZS050M

UVX1V101KPA1FA UVX1V222MHA1CA KME25VB100M-6.3X11 VTL100S10 VTL470S10 511D336M250EK5D 052687X ECE-A1CF471 EKXG451ELL820MM30S 686CKR050M NRE-S560M16V6.3X7TBSTF ERZA630VHN182UP54N UPL1A331MPH

NEV1000M6.3DE NEV100M16CB NEV100M50DD-BULK NEV2200M16FF NEV220M50EE NEV2.2M50AA NEV330M63EF

NEV4700M35HI NEV4.7M100BA NEV47M16BA NEV47M50CB-BULK NEVH1.0M350AB NEVH2.2M160AB NEVH3.3M350BC

TER330M50GM 477KXM035MGBWSA