KNSCHA 东莞市科尼盛电子有限公司

全球高端电容器制造商 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 Electrolytic Capacitor

客户料号:

(Customer part number)

科尼盛料号: 03EC0566

(KNSCHA number) 03EC0566

型号规格: KNSCHA SHC 35V100μF Φ6.3*12L

(Specifications) KNSCHA SHC 35V100μF Φ6.3*12L

制造 (Manufacture) Approval 拟制 审核 核准 (Fiction) (Chief) (Approval)

甲核 (Appro

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	
	03EC0566	SHC 35V100 μ F	Ф6.3*12L	2000 hours

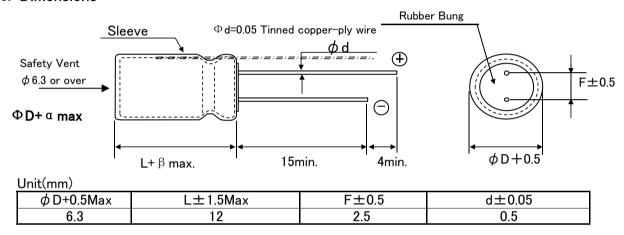
1. Operating Temp. Range

−40°C	~	+ 105℃	

2. Electrical Characteristics

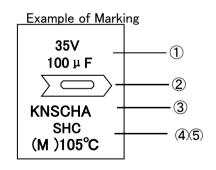
Table 1						
Rated Voltage VDC	Surge Voltage VDC	Nominal Static Capacitance (μ F)	Tolerance on Capacitance(%) 20°C 120Hz	Dissipation Factor (tan δ)max 20°C 120Hz		Permissible Ripple Current (mArms)max 105°C120Hz
35	44	100	-20 ~ +20	0.12	35	170

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
- Symbol of Capacitance Tolerance (M)
- 5 Max Operating Temp.

5.MULTIPLIER FOR RIPPLE CURRENT

1. Frequency Coefficient

Troquency Comme	requeries econolisis						
Freq.(Hz)	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 Coefficient

Temperature decinionic						
Ambient	40	60	70	85	105	
Temperature(°C)	40	00	70	65	103	
Coefficient	2.40	2.10	1.78	1.65	1.00	

6. Characteristics

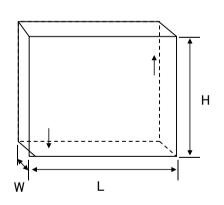
No.	Item	Pe	rformance			Test Method		
1	Leakage Current	I= 35.0 I= Max Leakage C C=Ctatic Capacito	urrent	·	Applied V	on Resistor : 1000±10Ω /olt : Rated Voltage g time : 2minutes		
2	Static Capacitance	80 ~ 120	80 \sim 120 μF			d Frequency : 120Hz±20% d Voltage .5Vrms, 1.5 ~ 2.0VDC		
3	Dissiption Factor (tanδ)	0.12 and Un	der		Same as	condition of Capacitors		
4	High Temp. Load Charac- teristics	Cap. Change Dissipation Factor Appearance	≦±20% of ir ≦200% of va No remarkab	lue specified in Table abnormality	Applied vo	Test Temp.: 105±2°C Applied voltage: Rated voltage Test Time:2,000 hours +72, -0 hours		
5	High Temp. no load Charac- teristics	Cap. Change	≦±20% of ir ≦200% of va	specified in Table nitial value lue specified in Ta ble abnormality	No voltag	Test Temp.: 105±2°C No voltage applied Test Time:1000 hours +24, -0 hurs		
6	Terminal Strength	Tensile Strength Bending Strength		Keeping time Tensile 1 ~ 5sec Bending 30±5sec		nsile 1~5sec		
7	Impedance Ratio	W V Z-25°C/Z Z-40°C/Z	+20°C	35 2 3				
8	Temperature Charac – teristics	2,3 Impedance Ratio 5 Cap, Change After the capacito	≪±2					
9	Surge Voltage	Item Leakage Curren Cap, Change Dissipation Fact Appearance Test Temp. 15~35°C Voltage apply. 1,000t and discharge for 5mir	ge ≤ ±15% against value before Factor ≤ the initial specified value No remakable abnormality 35°C Test volt. Surge Volt.Specture ,000times of chage for 30±5sec, under					

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 vibrat 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. 280±5°C Soldering Time . 10±1sec.
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

Packaging shape, size, quantity



Component	Quanity
size	per
6.3*12	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 Soldeing

10-1 Soldering by soldering iron

Temperature of iron top: 270~350°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 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,pn, specific gravity, size.

 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

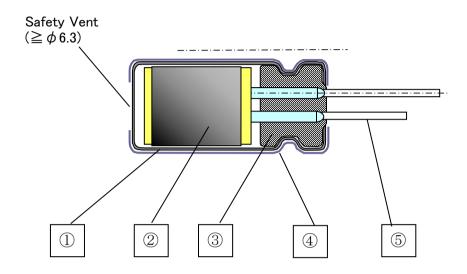
14 Effective life for storage

Storage conditions:

- 1 Temperature range must be between 5-35°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
- I Storage life is 12 months for capacitor of rated voltage \leq 160V
- II Storage life is 6 months for capacitor of rated voltage ≥ 200V

No,KNS-2003001 (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.



KNSCHA 东莞市科尼盛电子有限公司

出样检验报告表

东莞市艾江实业有限公司—品质部		
核准	复核	检验
徐贵南	刘军军	刘淑芬

型 号:	KNSCHA SHC	检验日期:	2021/4/8
规 格:	35 V 100 μF	订单 号 码:	
		温度 TEMP	湿度 R.H.
铝壳尺寸:	Ф6.3*12 mm	24.8℃	44% R.H.

检及	外观检查结果:	合格	
查标 项准 目	漏电流(µA) 2分钟	35 μΑ	
	静电容量(μF) 120Hz	80 μF~120 μF	
	损失角的正切(tanδ) 120Hz	≤ 0.12	

NO.	静电容量	损失角的正切	漏电流	备注
	80 μF~120 μF	≤ 0.12	35 μΑ	
1	96	0.044	10	
2	96	0.046	8	
3	95	0.043	7	
4	97	0.051	11	
5	97	0.049	6	
6	97	0.042	7	
7	96	0.054	8	
8	96	0.044	10	
9	95	0.052	8	
10	96	0.046	6	

备注 判定: 合格

参照ANSI/ASQC Z1.4第II制定抽样标准

测试仪器: 101LCR 容量测试仪

1062LCZ 阻抗测试仪

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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 EKMA500ELL4R7ME07D NRE-S560M16V6.3X7TBSTF RGA221M1CTA
0611G ERZA630VHN182UP54N UPL1A331MPH SK035M0100AZS-0611 MAL214658821E3 NEV1000M6.3DE NEV100M16CB

NEV100M50DD-BULK NEV2200M16FF NEV220M50EE NEV2.2M50AA