

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:

SHA68UF450V01EC1893

(KNSCHA number)

型号规格:

KNSCHA SHA 450V680μF Φ22*25L

(Specifications)

KNSCHA SHA 450V680μF Φ22*25L

制造						
	Manufacture	e)				
	Approval					
拟制	审 核	核准				
(Fiction)	(Chief)	(Approval)				
刘淑芬	刘军军	徐贵南				

	客 户	
	Customer)	
	Approval	
检 验	审 核	核准
(Inspect)	(Chief)	(Approval)

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SHA Series

Item Name	Rating	Case size	KNSCHA LIFE	
SHA68UF450V01EC1893	450V68µF	Ф22*25L	3000 hours	

1. Operating Temp. Range

2. Electrical Characteristics

See Table 1.

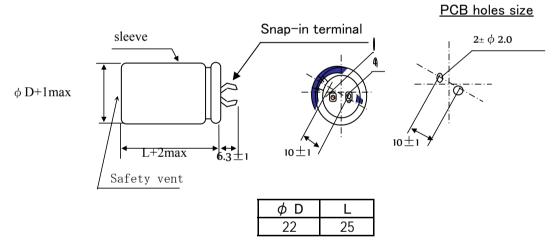
Table 1							
Rated Voltage VDC	Surge Voltage VDC	Nominal Static Capacitance (µF)	ToleranceonCap acitance (%) 20°C 120Hz	Dissipation Factor (tanδ)max 20°C 120Hz	Leakage Current 5min. 20°C (μA)	Permissible Ripple Current (mArms) 105°C120Hz	Impedance(Ω) 100KHZ 20°C
450	5 00	68	-20 ~ +20	0.15	612	1150	1.1

容量超过1000 µ F; 每超过1000 µ F, 损失角增加0.02

3. Shape and Dimensions

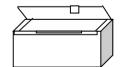
SHA Series

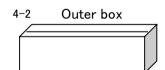
♦ Shape and Dimensions



4. Packing shape

4-1 Inner Box





4-3 Quantity per package

Unit (mm)

ΦД	L	Out box		
22	25	576pcs		

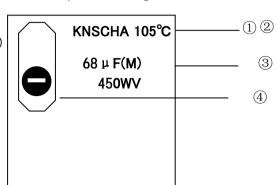
5. Marking

Following items are printed with white color on coffee color sleeve

- 1 Trade Mark
- 2 Max Operating Temp.

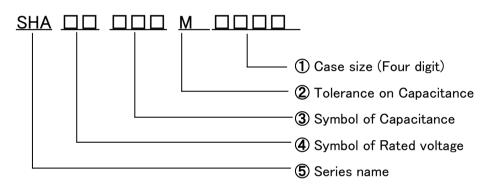
③ Rated voltage & Nominal Capacitance Symbol of Capacitance Tolerance (M)

4 Polarity (negative)



Example of Marking

6. Type numbering system



4

Volt.	Symbol
450	2W

(3)

<u> </u>	
Capacitance	e Example
68	680

1

Case size (Four digit) Example

Case size	Symbol		
Ф 22*25	2225		

2

Tolerance on Capacitance

М	±20%		

7. Characteristics

No.	Item	Performance	Test Method
1	Leakage Current	I= 612 μ A (I=0.02CV) Whichever is smaller (After 5min)	Protection Resistor : $1000\pm10\Omega$ Applied Volt : Rated Voltage Mesauring time : 3minutes
2	Static Capacitance	- 20% ~ + 20%	Measured Frequency : 120Hz±20% Measured Voltage ≤ 0.5Vrms, 1.5 ~ 2.0VDC
3	Dissiption Factor (tanδ)	0.15 and Under	Same as condition of Capacitors
4	High Temp. Load Charac- teristics	Leakage Current ≦the value specified in Table 1 Cap. Change ≦±20% of initial value Dissipation Factor ≦200% of value specified in Table Appearance No rSHArkable abnormality	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 ≦the value specified in Table 1 Cap. Change ≦±15% of initial value Dissipation Factor ≦150% of value specified in Table Appearance No rSHArkable abnormality	Test Temp. : 105±2°C No voltage applied Test Time : 3,000 hours +24, −0 hurs
6	Impedance Ratio	W V 450 Z-25°C/Z+20°C 8 Z-40°C/Z+20°C 12	
7	Temperature Charac – teristics	Stage Item Performance 2 Impedance Ratio less than the value mention 4 Cap, Change ≤±25% against value in st After the capacitor is held at tempereture of eac and reaches temperature stability, measure performance	age 3 2 -40±3; 3 20±2 4 105±2 5 20±2
8	Surge Voltage	Item PerforSHAnce Leakage Current ≤ the initial specified value Cap, Change ≤ ±15% against value be Dissipation Factor ≤ the initial specified value Appearance No rSHAkable abnormality Test Temp. 15~35°C Test volt. Surge Volt.Stream Voltage apply. 1,000times of chage for 30±5sec, using discharge for 5min30sec.	fore test ue ty Specified in 2

7-2. Characteristics

No.	Item	Performance			Test Method	
9	Vibration	Capacitance		Stability required	•	
	Resistance	Cap. Change)	≤±5% of the initial specifi	ed value	
		Appearance		No rSHArkable abnormal	ity	
		<u> </u>		5Hz/1min. Width of vibra	tion, 1.5mm	Direction and duration X,
				, each for 2 hours (Total		
10	Solderbility	3/4 area of surrou	ınding	directions of surface	Solder: Sr	n-Ag, Sn-Cu Type
		should be covered	with r	new solder.	Soldering	Temp: 240±5°C
					Dipping de	egree : 2~2.5mm
					Flux : Eth	anol solution (JIS K8101)
					or Isoprop	oylalchol (JIS K8839)
					solution o	of Rosin (JIS K5902)
11	Resistance	Leakage Current	≦ Init	tial specified value	Soldering	Temp. 280±5°C
	to	Cap. Change	≦±1	0% of initial value	Soldering	Time . 10±1sec.
	Soldering	Dissipation Factor	≦ Init	tial specified in value		
		Appearance	No rS	SHArkable abnormality		
10	D : .		/ 1 '1		T . T	40.1.0%
12	Resistance	Leakage Current		ial specified value		p.: 40±2°C
	to	Cap. Change		5% of initial value	Humidity	90~95% e:500 ± 8 hours
	Humidity	Dissipation Factor		HArkable abnormality	4	above condition.restored
		Appearance	110 13	HARRADIE abnormanty	-	temp, and then measured.
13	Perssure valve	There must not b	e thing	g ignition, scattering		l: impress the reverse voltage
	moment		_	case works safely		, I cancel an electric current.
	charact-					,
	erstics					

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

- \bigcirc 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.

12 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