JAMICON

KAIMEI ELECTRONIC CORP.

Customer: ROPLA

客 戶

Approval Sheet No: JSU003218090029-6

承認書編號

System No.

: PE48AA4

表單編號

APPROVAL SHEET

承 認 書

PRODUCT	ALUMINUM ELECTROLYTIC CAPACITOR
品 名:	鋁 質 電 解 電 容 器
CUSTOMER P/N	
客戶產品編號 :	
JAMICON P/N	
凱美產品編號 :	THS109M080S1A5T60L Old PN: (HSW103M1KQ60M)
SIGNATURE (客	与承認欄)
SIGNATURE(客	□承認欄)

KAIMEI ELECTRONIC CORP. (Headquarters)

凱美電機股份有限公司

13th FL. NO.81, SEC. 1, XINTAI 5TH RD., XIZHI DIST

New Taipei City 22101, Taiwan R.O.C

TEL: +886-2-2698-1010 FAX: +886-2-2698-0386

SUZHOU KAIMEI ELECTRONIC LTD.

蘇州凱美電子有限公司

No.68, Wen Du Rd., Wang Ting Town

Wuxian Municipality, Jiangsu Province 215155, China P.R.C.

TEL: +86-512-6-5389847 FAX: +86-512-6-5382688

JAMICON INTERNATIONAL LIMITED

凱捷國際有限公司

22/F,GuangDong Finance Building,

88 Connaught Road West, Sheung Wan, Hong Kong

TEL: +86-755-28135359 FAX: +86-755-28135384

APPROVED	CHECKED	DESIGNED			
核准	確認	作成			
HQ	Factory Suzhou	J KAIMEI ELECTRONIC LTD.			
TIQ	工廠 ☐ KAIMEI ELECTRONIC (H.K.) LTD.				
17. SEP 2018 技術部	胡建明	何婷			

ALUMINUM ELECTROLYTIC CAPACITOR SPECIFICATIONS

ICLI		2000	029-6
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Parts number system		Reference standard	JIS C5101-4
THS109M080S1A5T60L		Reted value 10000 μF 80 V	
DATA	2018/9/17	Dimensions	ϕ 35 × L 60 (mm)

1. Electrical characteristics

(A)Operating temperature range : $-40 \sim +105 \,^{\circ}\text{C}$

(B)Capacitance tolerance : $-20 \sim +20 \%$ 20°C 120 Hz

(C)Capacitance : $10000 \mu F$

(D)Rated working voltage (WV) : 80 V

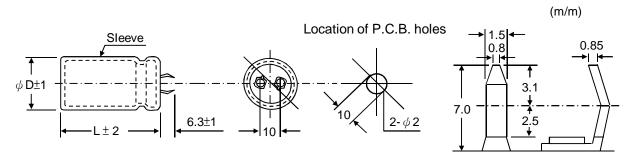
(E)Surge voltage (SV) : 100 V

(F)Leakage current : \leq 3000.0 μA 20°C 5 min

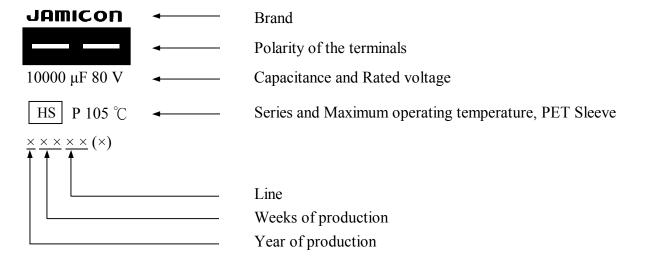
(G)Dissipation Factor ($\tan \delta$) : \leq 25 % 20°C 120 Hz

(H)Ripple current : < 3.38 A 105° C 120 Hz

2. Dimensions and materials



3. Marking



4. Ripple current coefficients

Frequency (Hz)	60	120	400	1k	10k
W.V.	Multlplier				
≤100V	0.80	1.00	1.10	1.20	1.20
≥160V	0.80	1.00	1.10	1.30	1.40

Temperature ($^{\circ}$ C)	40	60	70	85	105
Multiplier	2.50	2.20	2.00	1.80	1.00

5. Load life test

The rated voltage shall be applied continuously to the capacitor at a temperature of $+105^{\circ}$ C ripple current for 2000 hours, after 16 hours in room temperature, should do final measurements, the values are as following:

 $(DC + ripple peak voltage \le rate working voltage)$

(A)Capacitance change : $\leq \pm 20 \%$ of initial value

(B) Dissipation factor $: \le 175 \%$ of initial specified value

(C)Leakage current $: \leq$ initial specified value

6. Shelf life test

The capacitor without rated voltage at a temperature of $+105^{\circ}$ C for 1000 hours and then through the aging treatment (reference JIS C5101-4 4.1), should do final measurements, the values are as following:

(A)Capacitance change : $\leq \pm 20$ % of initial value

(B)Dissipation factor : \leq 175 % of initial specified value

(C)Leakage current $: \leq$ initial specified value

7. Low temperature storage test

The capacitor without rated voltage at the lowest operation temperature 16 hours, after 16 hours in room temperature, should do final measurements,

the values are as followin:

(A)Capacitance change : $\leq \pm 10$ % of initial value (B)Dissipation factor : \leq initial specified value (C)Leakage current : \leq initial specified value

8. Low temperature stability

Impedance ratio at 120Hz

 $Z - 25 \degree C / Z + 20 \degree C$: 3 (Max) $Z - 40 \degree C / Z + 20 \degree C$: 6 (Max)

9. Solderability

Capacitor lead wire dipping in flax, and then dip in 245±3°C, solder liquid for 3±0.5 seconds, the substance is above the liquid solder 2mm, the dipping lead must be adherent 95% fresh tin at least.

10. Resistance to soldering heat

Put capacitor lead wire to dip 260±5°C in solder liquor away the body 2mm, after 10±1 seconds taken out, after two hours in room temperature, should do final measurements, the values are following:

(A)Capacitance change \implies $\le \pm 10 \%$ of initial value (B)Dissipation factor \implies \le initial specified value (C)Leakage current \implies initial specified value

(D)Visual : NO damage

11.Surge test

The capacitor shall be applied the surge voltage connected with the $1 \text{ k}\Omega$ resistor in room temperature, and shall be applied the surge voltage 1000 cycle, each for 30 seconds charge and 5 minutes 30 seconds discharge, the final test values should be as following:

 $\begin{array}{lll} \hbox{(A)Capacitance change} & : & \leq \pm \ 15 \ \% \ of initial \ value \\ \hbox{(B)Dissipation factor} & : & \leq \ initial \ specified \ value \\ \hbox{(C)Leakage current} & : & \leq \ initial \ specified \ value \\ \end{array}$

(D)Visual : NO damage

12.Safety vent

(A)Test condition (DC method)

Reverse voltage shall be applied. Then 10 A current shall be flowed.

(B)Criteria

- (a) Safety vent shall be operated.
- (b) Emission of flame shall not be found before and after venting.
- (c) Terminal, lead wire, metal chip and so on shall not be flown apart and case shall not be separated before and after venting.
- (d) Sealing part and case shall not be separated before and after venting.
- (e) When capacitor is soldered, some space must be kept above the vent as per following list.

ϕD (mm)	≦ 16	18~35	≥40
Space (mm)	2 min	3 min	5 min