JAMICON

KAIMEI ELECTRONIC CORP.

Customer: SCHUKAT

客戶

Approval Sheet No: JSU003218040050-5

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 :				
<u>-</u>				
JAMICON P/N				
凱美產品編號:	JTK228M025S1GMK25L (Old PN: TKR222M1EI25M)			
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SIGNATURE (客				
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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

KAIMEI ELECTRONIC (H.K.) LTD.

凱美電機(香港)有限公司

10th Industry Area, 2nd Donghuan, Longhua,

Shenzhen City 518109, China P.R.C.

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

APPROVED 核准	CHECKED 確認	DESIGNED 作成
HQ		KAIMEI ELECTRONIC LECTRONIC (H.K.) LTD.
25. APR 2018 技術部	胡建明	潘開棟

ALUMINUM ELECTROLYTIC CAPACITOR SPECIFICATIONS

JSU003218040050-5

Parts nu	umber system	Reference standard	JIS C5101-4				
JTK228M	025S1GMK25L	Reted value		2200	μ F	25	WV
DATE	2018/4/25	Dimensions	ψ	12.5	× L	25	(mm)

1. Electrical characteristics

(A)Operating temperature range \div - 55 \sim + 105 $^{\circ}$ C

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

(C)Capacitance : $2200 \mu F$

(D)Rated working voltage (WV) : 25 V

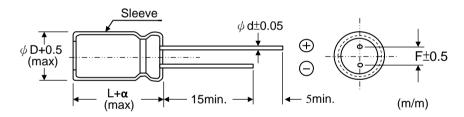
(E)Surge voltage (SV) : 32 V

(F)Leakage current : \leq 550 μ A 20°C 3 minutes

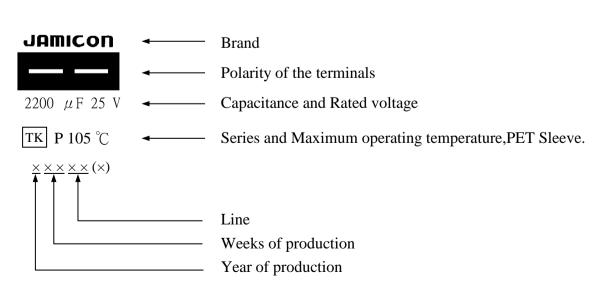
(G)Dissipation Factor (tan δ) : \leq 17 % 20°C 120Hz

(H)Ripple current : \leq 1370 mA 105°C 120Hz

2.Dimensions and materials



3.Marking



4. Ripple current coefficients

Frequency(Hz)	60	120	10k	≥10k
W.V.	Multiplier			
6.3~25V	0.85	1.00	1.10	1.20
35~100V	0.80	1.00	1.15	1.25
160~250V	0.75	1.00	1.25	1.40
350~450V	0.70	1.00	1.30	1.80

$Temperature(^{\circ}C)$	65	85	105
Multiplier	1.75	1.40	1.00

5.Load life test

The rated voltage shall be applied continuously to the capacitor at a

temperature of +105°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 $\vdots \leq \pm 20$ % of initial value

(B)Dissipation factor : \leq 200 % of initial specified value

(C)Leakage current $\vdots \leq \text{initial specified value}$

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),

should do final measurements, the values are as following

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

(B)Dissipation factor $\therefore \leq 200 \%$ of initial specified value

(C)Leakage current $\vdots \leq \text{initial specified value}$

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 following:

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

8.Low temperature stability

Impedance ratio at 120Hz

(A) $Z - 25 \, ^{\circ}C \, / \, Z + 20 \, ^{\circ}C \, : \, 2 \, (Max)$ (B) $Z - 40 \, ^{\circ}C \, / \, Z + 20 \, ^{\circ}C \, : \, 4 \, (Max)$

9.Lead strength

(A)Tensile strength : 1.0 kg

The capacitor shall withstand the constant tensile force specified between the body and each lead for 10 seconds without either mechanically or electrically.

(B) bending strength : 0.5 kg

With the capacitor in a vertical position apply the load specified axially to each lead. the capacitor shall be rotated slowly form the vertical to the horizontal position. back to the vertical position. the 90° in the opposite direction and back the original position. performance of capacitor shall not have changed and leads shall be undamaged.

10.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. tin at least.

11.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 $\vdots \leq \pm 10$ % of initial value (B)Dissipation factor $\vdots \leq \pm 10$ % of initial value (C)Leakage current $\vdots \leq \pm 10$ % of initial value

(D)Visual : NO damage

12.Surge test

The capacitor shall be applied the surge voltage connected with the $1k\Omega$ 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:

(A)Capacitance change $\vdots \leq \pm 15$ % of initial value (B)Dissipation factor $\vdots \leq \pm 15$ % of initial value (C)Leakage current $\vdots \leq \pm 15$ % initial specified value

(D)Visual : NO damage

13.Safety vent

(A)Test condition (DC method)

Reverse voltage shall be applied. Then 1 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

ϕ D	(mm)	≦ 16	18~35	≧40
Space	(mm)	2min	3min	5min