

JAMICON

KAIMEI ELECTRONIC CORP.

Customer : SCHUKAT
客 戶

Approval Sheet No : JSU003218050009-2
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 : JSH106M050S1AMD07L (Old PN:SHR100M1HD07M)

SIGNATURE (客戶承認欄)

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APPROVED 核准	CHECKED 確 認	DESIGNED 作 成
HQ	Factory <input checked="" type="checkbox"/> SUZHOU KAIMEI ELECTRONIC 工廠 <input type="checkbox"/> KAIMEI ELECTRONIC (H.K.) LTD.	
	胡建明	潘開棟

ALUMINUM ELECTROLYTIC CAPACITOR SPECIFICATIONS JSU003218050009-2

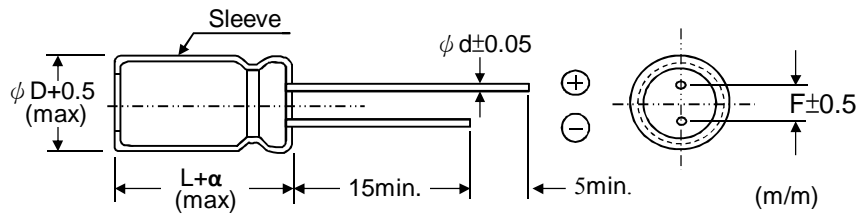
Parts number system		Reference standard	JIS C5101-4	
JSH106M050S1AMD07L		Reted value	10 μ F	50 WV
DATE	2018/5/8	Dimensions	ϕ 5 \times L 7	(mm)

1. Electrical characteristics

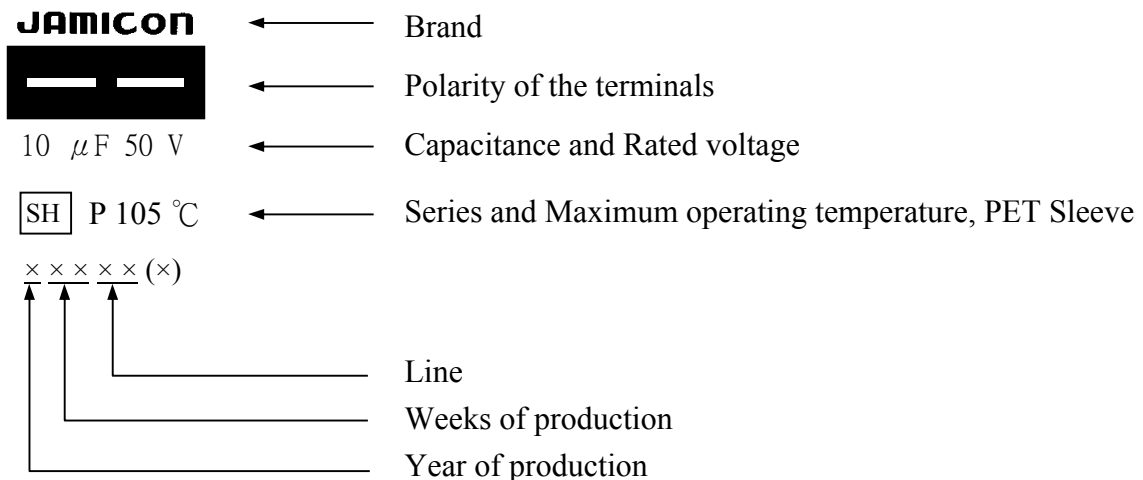
(A) Operating temperature range	:	- 55 ~ + 105	$^{\circ}$ C	
(B) Capacitance tolerance	:	- 20 ~ + 20	%	20 $^{\circ}$ C 120Hz
(C) Capacitance	:	10	μ F	
(D) Rated working voltage (WV)	:	50	V	
(E) Surge voltage (SV)	:	63	V	
(F) Leakage current	:	\leq 5	μ A	20 $^{\circ}$ C 2 minutes
(G) Dissipation Factor ($\tan \delta$)	:	\leq 12	%	20 $^{\circ}$ C 120Hz
(H) Ripple current	:	\leq 39	mA	105 $^{\circ}$ C 120Hz

2. Dimensions and materials

(mm)			
D	ϕ 5	L	7
d	ϕ 0.45	F	2.0
α	1.0		



3. Marking



4. Load life test

The rated voltage shall be applied continuously to the capacitor at a temperature of +105°C ripple current for 1000 hours, after 16 hours in room temperature, should do final measurements, the values are as following:

(DC+ ripple peak voltage \leq rate working voltage)

(A) Capacitance change : $\leq \pm$ 25 % of initial value

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

(C) Leakage current : \leq initial specified value

5. Shelf life test

The capacitor without rated voltage at a temperature of +105°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 : $\leq \pm$ 25 % of initial value

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

(C) Leakage current : \leq initial specified value

6. 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 : $\leq \pm$ 10 % of initial value

(B) Dissipation factor : \leq initial specified value

(C) Leakage current : \leq initial specified value

7. Low temperature stability

Impedance ratio at 120Hz

(A) Z - 25 °C / Z + 20 °C : 2 (Max)

(B) Z - 40 °C / Z + 20 °C : 3 (Max)

8. Lead strength

(A) Tensile strength : 0.5 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 : 0.25 kg

With the capacitor in a vertical position apply the load specified axially to each lead.

the capacitor shall be rotated slowly from 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.

9.Solderability

Capacitor lead wire dipping in flux, and then dip in $245\pm 3^{\circ}\text{C}$, 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.

10.Resistance to soldering heat

Put capacitor lead wire to dip $260\pm 5^{\circ}\text{C}$ 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 : $\leq \pm 10\%$ of initial value
- (B)Dissipation factor : \leq initial specified value
- (C)Leakage current : \leq 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:

- (A)Capacitance change : $\leq \pm 15\%$ of initial value
- (B)Dissipation factor : \leq initial specified value
- (C)Leakage current : \leq initial specified value
- (D)Visual : NO damage