JAMICON
KAIMEI ELECTRONIC CORP.

Customer : ROPLA 客　戶	Approval Sheet No : JSU003218090007-7 承認書編號 System No. : PE48AA4 表單編號

APPROVAL SHEET
承　認　書

PRODUCT
品　　名 ： ALUMINUM ELECTROLYTIC CAPACITOR
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 ： TLS339M050S1A5T60L (Old PN:LSW333M1HQ60M)

SIGNATURE（客戶承認欄）

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10. SEP 2013 技術部	胡建明	何婷

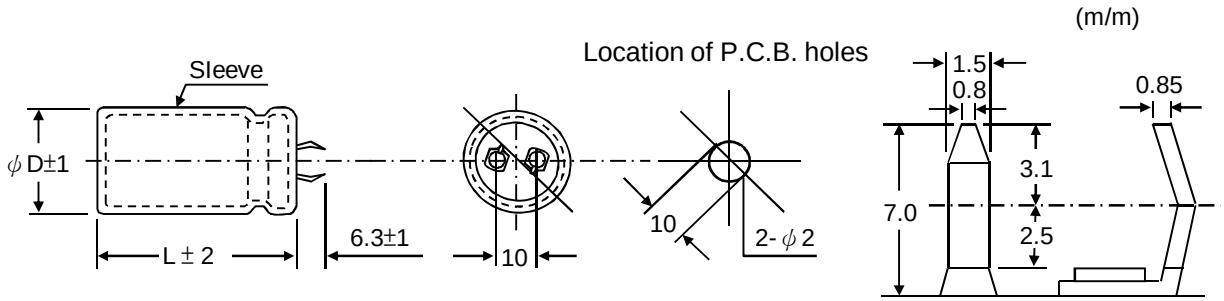
ALUMINUM ELECTROLYTIC CAPACITOR SPECIFICATIONS JSU003218090007-7

Parts number system		Reference standard	JIS C5101-4
TLS339M050S1A5T60L		Reted value	33000 μF 50 WV
DATA	2018/9/10	Dimensions	φ 35 × L 60 (mm)

1. Electrical characteristics

(A)Operating temperature range	:	− 40 ～ + 85	℃		
(B)Capacitance tolerance	:	− 20 ～ + 20	%		20℃ 120 Hz
(C)Capacitance	:	33000	μF		
(D)Rated working voltage (WV)	:	50	V		
(E)Surge voltage (SV)	:	63	V		
(F)Leakage current	:	≦ 3000	μA		20℃ 5 min
(G)Dissipation Factor (tanδ)	:	≦ 35	%		20℃ 120 Hz
(H)Ripple current	:	＜ 7.26	A		85℃ 120 Hz

2. Dimensions and materials



3. Marking

← Brand

← Polarity of the terminals

33000 μF 50 V ← Capacitance and Rated voltage

LS P 85 ℃ ← Series and Maximum operating temperature, PET Sleeve

× × × × × (×)

Line

Weeks of production

Year of production

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 (℃)	40	60	70	85
Multiplier	1.80	1.40	1.20	1.00

5. Load life test

The rated voltage shall be applied continuously to the capacitor at a temperature of +85℃ ripple current for 2000 hours, after 16 hours in room temperature, should do final measurements, the values are as following:
(DC + ripple peak voltage ≦ rate working voltage)

(A)Capacitance change : ≦ ± 15 % of initial value
(B)Dissipation factor : ≦ 175 % of initial specified value
(C)Leakage current : ≦ initial specified value

6. Shelf life test

The capacitor without rated voltage at a temperature of +85℃ 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 : ≦ ± 15 % of initial value
(B)Dissipation factor : ≦ 175 % of initial specified value
(C)Leakage current : ≦ 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 : ≦ ± 10 % of initial value
(B)Dissipation factor : ≦ initial specified value
(C)Leakage current : ≦ initial specified value

8. Low temperature stability

Impedance ratio at 120Hz

Z − 25 ℃ / Z + 20 ℃ : 4 (Max)
Z − 40 ℃ / Z + 20 ℃ : 15 (Max)

9. Solderability

Capacitor lead wire dipping in flax, and then dip in 245±3℃, 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℃ 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 : ≦ ± 10 % of initial value
(B)Dissipation factor : ≦ initial specified value
(C)Leakage current : ≦ initial specified value
(D)Visual : NO damage

11. Surge test

The capacitor shall be applied the surge voltage connected with the 1 kΩ 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 : ≦ ± 15 % of initial value
(B)Dissipation factor : ≦ initial specified value
(C)Leakage current : ≦ initial specified value
(D)Visual : NO damage

12. Safety vent

(A)Test condition (DC method)

Reverse voltage shall be applied. Then 10A 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