

客戶

CUSTOMER : ROPLA

# 承 認 書

## APPROVE SHEET

【 Compliance with RoHS 】

品名 鋁質電解電容器

PARTS :

客戶產品編號:

USER NO :

凱美產品編號:

CODE NO : STR101M1EF05M

承認欄(SIGNATUME)

JAMICON 凱美電機(香港)有限公司  
KAIMEI ELECTRONIC (H.K)LTD

	確 認 CHECKER	作 成 DESIGNER
	唐洪	宋英

ALUMINUM ELECTROLYTIC CAPACITOR SPECIFICATIONS

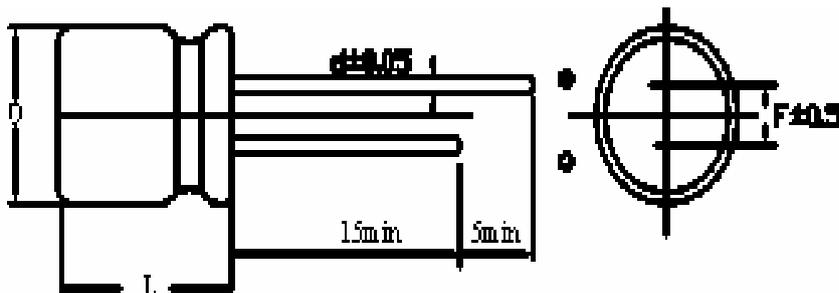
Parts number system	Reference standard	JIS C5101-4
STR101M1EF05M	Reted value	100 $\mu$ F 25WV
	Dimensions	$\phi$ 8 x L 5 (mm)

1. Electrical characteristics

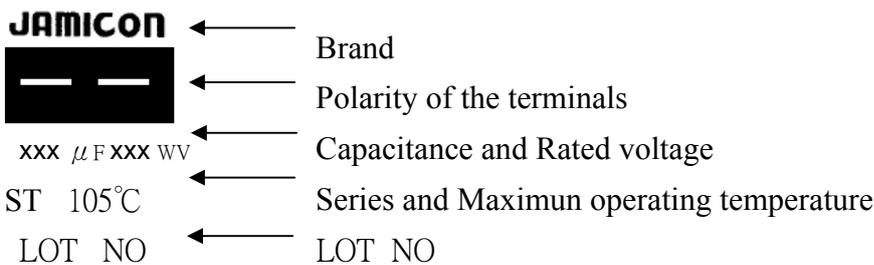
(A)Operating temperature range	:	- 55 °C	~	+ 105 °C	
(B)Capacitance tolerance	:	- 20 %	~	+ 20 %	20°C 120Hz
(C)Capacitance	:			100 $\mu$ F	
(D)Rated working voltage (WV)	:			25 V	
(E)Surge voltage (SV)	:			32 V	
(F)Leakage current	:	$\leq$		25.0 $\mu$ A	20°C 2 min
(G)Dissipation Factor (tan $\delta$ )	:	$\leq$		0.16	20°C 120 Hz
(H)Ripple current	:	$\leq$		95 mA	105°C 120 Hz
(I) E.S.R	:	$\leq$		- ( $\Omega$ )	20°C 120 Hz

2. Dimensions and material

D	$\Phi 8 \pm 0.5$	L	5 $\pm 1.0$
d	0.45	F	2.5 $\pm 0.5$



3. Marking



<b>KAIMEI ELECTRONIC(H.K)LTD</b>	<b>Chart number</b>	<b>2009/9/30</b>
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## 4. Load life test

The rated voltage shall be applied continuously to the capacitor at a temperature of +105°C 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 4.1 ), 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 :  $\leq$  of initial specified value

## 6. Low temperature storage test

The capacitor without rated voltage at the lowest operation temperature 16 hours, after two 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  $245\pm 3^{\circ}\text{C}$  in solder liquor for  $3\pm 0.5$  seconds, 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  $260\pm 5^{\circ}\text{C}$  in solder liquor away the body 2mm, after  $10\pm 1$  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 :  $\leq$  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 room temperature, and shall be applied the surge voltage 1000 cycle, each for 30 seconds charge and 5minutes 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

## 12.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

$\Phi D$ (mm)	$\leq 16$	18~35	$\geq 40$
Space (mm)	2min	3min	5min

## 13.Leakage current

If keep our capacitor in origin ambient temperature and humidity condition, is no need to re-charging it within 12 months period, and we warranty it leakage current reading is within our specification of approval sheet.