CUSTOMER： ROPLA
客　　戶
(PE48AA3)

NO：
編號 S050030

APPROVAL SHEET

PARTS　　ALUMINUM ELECTROLYTIC CAPACITOR
品　　名　　鋁　質　電　解　電　容　器

USER P/N
客戶產品編號

JAMICON P/N
凱美產品編號 **STR101M1CE05M**

SIGNATURE（承認欄）

JAMICON 凱美電機(香港)有限公司

	CHECKER 確　認	DESIGNER 作　成
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ALUMINUM ELECTROLYTIC CAPACITOR SPECIFICATIONS

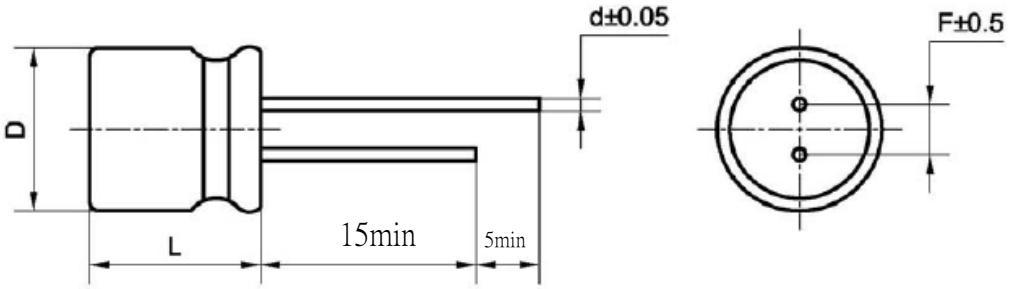
Parts number system	Reference standard	JIS C5101-4
STR101M1CE05M	Reted value	100 μF 16 WV
	Dimensions	φ 6.3 x L 5 (mm)

1. Electrical characteristics

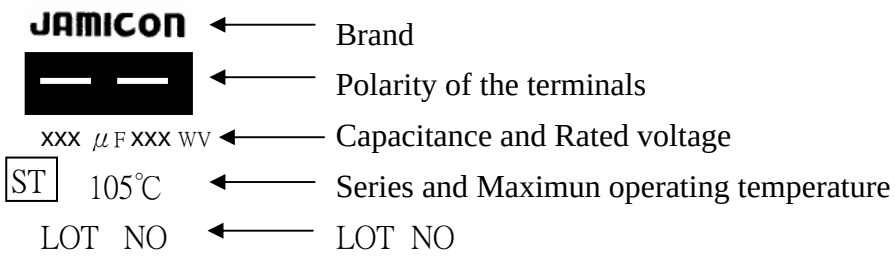
(A)Operating temperature range	:	- 55 ℃ ~ + 105 ℃				
(B)Capacitance tolerance	:	- 20 % ~ + 20 %			20℃	120Hz
(C)Capacitance	:		100	μF		
(D)Rated working voltage (WV)	:		16	V		
(E)Surge voltage (SV)	:		20	V		
(F)Leakage current	:	≦	16.0	μA	20℃	2 min
(G)Dissipation Factor (tan δ)	:	≦	0.20		20℃	120 Hz
(H)Ripple current	:	≦	80	mA	105℃	120 Hz

2.Dimensions and materials

D	Φ6.3±0.5	L	5+1.0(max)
d	0.45	F	2.5±0.5



3.Marking



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4.Load life test

The rated voltage shall be applied continuously to the capacitor at a temperature of +105℃ ripple current for 1000 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 : ≦ ± 25 % of initial value

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

(C)Leakage current : ≦ initial specified value

5.Shelf life test

The capacitor without rated voltage at a temperature of +105℃ 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 : ≦ ± 25 % of initial value

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

(C)Leakage current : ≦ 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 : ≦ ± 10 % of initial value

(B)Dissipation factor : ≦ initial specified value

(C)Leakage current : ≦ initial specified value

7.Low temperature stability

Impedance ratio at 120Hz

(A) Z - 25 ℃ / Z + 20 ℃ : 2 (Max)

(B) Z - 40 ℃ / Z + 20 ℃ : 4 (Max)

8.Lead strength

(A)Tensile strength : 0.50 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 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.

9.Solderability

Capacitor lead wire dipping in flax, and then dip in 245± 3℃ in solder liquor for3±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± 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 1kΩ 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 : ≦ ± 15 % of initial value
(B)Dissipation factor : ≦ initial specified value
(C)Leakage current : ≦ initial specified value
(D)Visual : NO damage