JAMICON

編號

CUSTOMER: ROPLA NO: T0709039

承 認 書 APPROVE SHEET

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

USER NO. CODE NO. Q'TY

----- WLR101M1VE11MT9 28PCS

承認欄(SIGNATURE)

簽認后,請簽回一份

PLEASE RETURN US ONE COPY YOUR SIGNED SPECIFICATION AFTER YOU APPROVED OF IT.

| 確認 | 作成 | |
|----------------|------------------------|--|
| CHECKER | DESIGNER | |
| 課長 07.10.04 李奎 | 技術部 07.10.04 胡彩娟 | |

蘇州凱美電子有限公司

SUZHJU KAIMEI ELECTRONIC LTD.

江蘇省蘇州市相城區望亭鎮問渡路68號

NO. 68 VENDU RD. VANCTING TOWISHIP, XIANCCHENG DISTRICT, JIANGSU CHINA

TEL: 0512-65383705

FAX: 0512-65382688

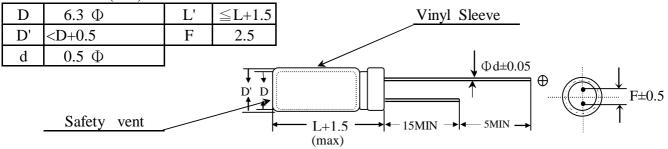
JAMICON

(PE10AA4)

ELECTROLYTIC CAPACITOR SPECIFICATION

| CU | STOMER | ROPLA | | | |
|-----------|--------|-----------------|------|-----------------|--|
| CODE | YOUR | | | NO. T0709039 | |
| CODE | OUR | WLR101M1VE11MT9 | | DATE 2007/10/4 | |
| LOT NO. | | | | POLARITY | |
| CASE SIZE | | 6.3 × 11 | | QUANTITY 28 PCS | |
| SERIES | WLR | TYPE | R | SAFETY VENT | |
| RATED VA | ALUE | 100 uF | 35 v | | |

DIMENSIONS (mm)



| | Item | Characteristices | | |
|-------------|--|---|--|--|
| Operation | temperature range | - 55 °C ~ + 105 °C | | |
| Capacitance | e Tolerance | - 20 % ~ + 20 % | | |
| Surge Volt | age | 44 VDC | | |
| Leakage C | urrent | $I \leq 35$ (u A) Whichever is greater after 3 minutes | | |
| Dissipation | ation Factor \leq 12 (%) 120Hz 20 °C | | | |
| E.S.R. | | < (Ω) 120Hz 20 °C | | |
| Ripple Cur | rent | < 400 (m A) 100KHz 105 °C | | |
| IMP. | | < 0.2 (Ω) 100KHz 20 °C | | |
| | | Impedance Ratio At 120Hz | | |
| Low Temp | erature Stability | $Z-25^{\circ}C$ / $Z+20^{\circ}C$ 2 MAX | | |
| | | $Z-55^{\circ}C$ / $Z+20^{\circ}C$ 4 MAX | | |
| | | After 1000 Hrs At 105 °C | | |
| | | Capacitance Change $\leq \pm 20$ % of initial value | | |
| Load Test | | D.F.(tan δ) \leq 200 % of initial specified value | | |
| | | Leakage Current ≤ initial specified value | | |
| | | Out Look Should be without any change | | |
| Teminal | Pull Test | 0.5 kg 10±1 sec | | |
| Strength | Bend Test | 0.25 kg 2 cycle | | |
| Soldering | | 245±3°C Soldering must covered | | |
| | | 3±0.5sec more than 95% | | |
| Storage Te | emperature | - 55 °C ~ + 105 °C | | |
| TEST FRE | O ·120Hz | TEST TEMP:20°C REFERENCE STANDARD: IIS C5102 | | |

TEST FREQ.:120Hz TEST TEMP:20°C REFERENCE STANDARD: JIS C5102

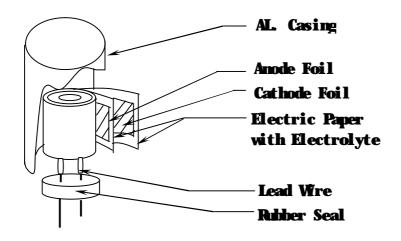
SU ZHOU KAIMEI ELECTRONIC LTD.

| CHECKED | DESIGNED | | |
|----------------|------------------------|--|--|
| 課長 07.10.04 李奎 | 技術部 07.10.04 胡彩娟 | | |

ALUMINUM ELECTROLYTIC CAPACITOR SPECIFICATIONS

Reference standard JIS C5102

ELECTROLYTIC CAPACITOR STRUCTURE AND MATERIAL LIST



| No | Items Name | Raw Material Used | |
|----|--------------------------|---------------------------------|--|
| 1 | Al. Casing | Aluminum | |
| 2 | Anode Etched and Forning | High Aluminum Purity | |
| ۵ | Foil | | |
| 3 | Cathode Etched Foil | Aluminum Purity | |
| 4 | Electric Paper | Manila Pulp and Kraft Pulp | |
| | | Ethelene Glycol, Demineralized | |
| 5 | ectrolyte | Water, Ammonium Adipate, Adipic | |
| | | Acid and etc. | |
| 6 | Rubber Seal | EPT | |
| 7 | Lead Wire | Stitched Area, | |
| | LCRI VII C | Cp Wire: Copper, iron, Tin | |
| 8 | SLEEVE | PVC | |

The all material no to carry harmful substance.

Cd · PBB · PBDE · PCN · PCB · CFC · Organic tin compounds · Asbestos · AZO compounds.

Packaging

 $Cd+Cr^{+6}+Pb+Hg \le 100PPM$

SU ZHOU KAIMEI ELECTRONIC LTD.



Test Report

No.: CE/2006/C4285 Date: 2006/12/26 Page : 1 of 3

SUZHOU KAIMEI ELECTRONICS CO., LTD. 68 WENDU ROAD, WANGTING TOWNSHIP, XIANG CHENG DISTRICT SUZHOU CITY, JIANGSU

Report on the submitted sample said to be ALUMINUM ELECTROLYTIC CAPACITOR.

Style/Item No **RADIAL TYPE** Sample Receiving Date 2006/12/19

2006/12/19 TO 2006/12/26 **Testing Period**

In accordance with the RoHS Directive 2002/95/EC, and its **Test Requested**

amendment directives.

Test Method (1) With reference to BS EN 1122:2001, Method B for Cadmium

Content. Analysis was performed by ICP-AES.

(2) With reference to US EPA Method 3050B for Lead Content.

Analysis was performed by ICP-AES.

(3) With reference to US EPA Method 3052 for Mercury Content.

Analysis was performed by ICP-AES.

(4) With reference to US EPA Method 3060A & 7196A for

Hexavalent Chromium for non-metallic samples. Analysis

was performed by UV/Vis Spectrometry.

(5) With reference to US EPA 3540C for PBBs/PBDEs Content.

Analysis was performed by GC/MS.

Test Result(s) Please refer to next page(s).

gned for and on behalf of SGS TAIWAN LTD.

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Test Report

No.: CE/2006/C4285 Date: 2006/12/26 Page : 2 of 3

SUZHOU KAIMEI ELECTRONICS CO., LTD. 68 WENDU ROAD, WANGTING TOWNSHIP, XIANG CHENG DISTRICT SUZHOU CITY, JIANGSU

Test results by chemical method (Unit: mg/kg)

| Test Item (s): | Method | Result | MDL |
|--------------------------------------|------------|--------|-----|
| rest item (s): | (Refer to) | No.1 | |
| Cadmium (Cd) | (1) | n.d. | 2 |
| Lead (Pb) | (2) | n.d. | 2 |
| Mercury (Hg) | (3) | n.d. | 2 |
| Hexavalent Chromium (CrVI) | (4) | n.d. | 2 |
| Sum of PBBs | | n.d. | - |
| Monobromobiphenyl | | n.d. | 5 |
| Dibromobiphenyl | | n.d. | 5 |
| Tribromobiphenyl | | n.d. | 5 |
| Tetrabromobiphenyl | | n.d. | 5 |
| Pentabromobiphenyl | | n.d. | 5 |
| Hexabromobiphenyl | | n.d. | 5 |
| Heptabromobiphenyl | | n.d. | 5 |
| Octabromobiphenyl | | n.d. | 5 |
| Nonabromobiphenyl | | n.d. | 5 |
| Decabromobiphenyl | | n.d. | 5 |
| Sum of PBDEs (Mono to Nona) (Note 4) | (5) | n.d. | - |
| Monobromobiphenyl ether | | n.d. | 5 |
| Dibromobiphenyl ether | | n.d. | 5 |
| Tribromobiphenyl ether | | n.d. | 5 |
| Tetrabromobiphenyl ether | | n.d. | 5 |
| Pentabromobiphenyl ether | | n.d. | 5 |
| Hexabromobiphenyl ether | | n.d. | 5 |
| Heptabromobiphenyl ether | | n.d. | 5 |
| Octabromobiphenyl ether | | n.d. | 5 |
| Nonabromobiphenyl ether | | n.d. | 5 |
| Decabromobiphenyl ether | | n.d. | 5 |
| Sum of PBDEs (Mono to Deca) | | n.d. | - |

Test Part Description:

NO.1 MIXED ALL PARTS

Note: 1. mg/kg = ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. Sum of Mono to NonaBDE & according to 2005/717/EC DecaBDE is exempt.

5. "-" = Not Regulated

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Test Report

No.: CE/2006/C4285 Date: 2006/12/26 Page: 3 of 3

SUZHOU KAIMEI ELECTRONICS CO., LTD. 68 WENDU ROAD, WANGTING TOWNSHIP, XIANG CHENG DISTRICT SUZHOU CITY, JIANGSU





** End of Report **

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