

SMD Type Power Inductor

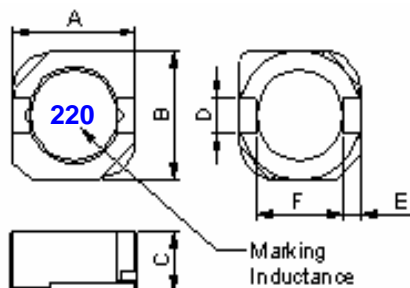
SDSL10D50F-220M

1. Features

- 1.Low profile very effective in space-conscious applications.
- 2.Low resistance and high energy storage.
- 3.100% Lead(Pb) & Halogen-Free and RoHS compliant.



2. Dimension



| Series | A(mm) | B(mm) | C(mm) | D(mm) | E(mm) | F(mm) |
|------------|-----------|-----------|----------|----------|----------|---------|
| SDSL10D50F | 10.5 max. | 10.3 max. | 5.0 max. | 3.0 ref. | 1.2±0.15 | 7.7±0.3 |

Units: mm

3. Part Numbering



A: Series

B: Dimension

C: Lead free type

D: Inductance

E: Inductance Tolerance

220=22uH

M=±20%

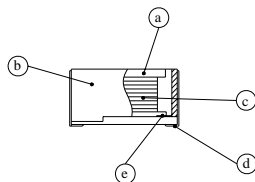
4. Specification

| TAI-TECH Part Number | Inductance (uH) | Test Frequency (Hz) | DCR (mΩ) max. | I sat (A) max. | I rms (A) typ. |
|----------------------|-----------------|---------------------|---------------|----------------|----------------|
| SDSL10D50F-220M | 22±20% | 0.1V/100K | 61.0 | 2.90 | 2.95 |

5. Schematic Diagram

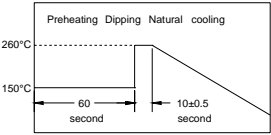
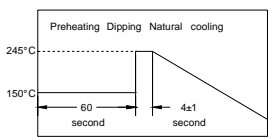


6. Materials

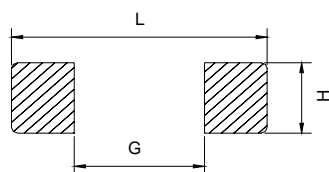


| No. | Description | Specification |
|-----|-------------|-----------------------|
| a. | Core | Ferrite DR Core |
| b. | Core | Ferrite RI Core |
| c. | Wire | Enamelled Copper Wire |
| d. | Terminal | Tinned Copper Plate |
| e. | Adhesive | Epoxy |

7. Reliability and Test Condition

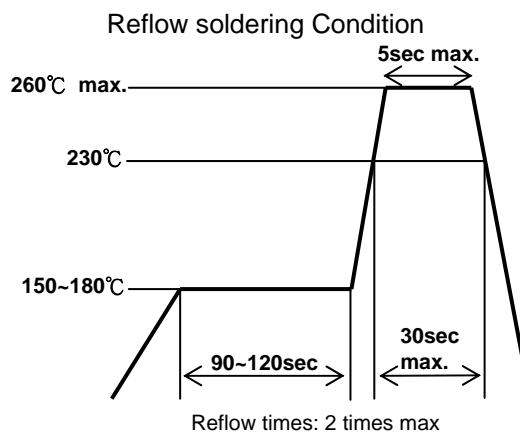
| Item | Performance | Test Condition | | | | | | | | | | | | | | | |
|----------------------------------|---|--|-------|-----------------|-----------|---|---------|------|---|------------|----|---|---------|------|---|------------|----|
| Operating Temperature | -40~+125°C | | | | | | | | | | | | | | | | |
| Storage temperature | -40~+85°C (For products in unopened tape package, less than 40°C) | | | | | | | | | | | | | | | | |
| Rated Current | Base on temp. rise & $\Delta L/LOA=35\%$ typ. | | | | | | | | | | | | | | | | |
| Temperature Rise Test | 40°C max. (Δt) | | | | | | | | | | | | | | | | |
| Solder heat Resistance | Appearance: No significant abnormality. Inductance change: Within $\pm 20\%$. |  <p>Preheat:150°C,60sec. Solder : Sn-Ag3.0-Cu0.5 Solder temperature:260±5°C Flux: rosin Dip time:10±0.5sec.</p> | | | | | | | | | | | | | | | |
| Solderability | More than 90% of the terminal electrode should be covered with solder. |  <p>Preheat:125±25°C,60sec. Solder : Sn-Ag3.0-Cu0.5 Solder temperature:245±5°C Flux: rosin Dip time:4±1sec.</p> | | | | | | | | | | | | | | | |
| Thermal shock | Appearance: no damage. Inductance: within±20%of initial value. | <table border="1" data-bbox="746 840 1045 1070"> <thead> <tr> <th>Phase</th> <th>Temperature(°C)</th> <th>Time(min)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>-25±2°C</td> <td>30±3</td> </tr> <tr> <td>2</td> <td>Room Temp.</td> <td>15</td> </tr> <tr> <td>3</td> <td>+85±2°C</td> <td>30±3</td> </tr> <tr> <td>4</td> <td>Room Temp.</td> <td>15</td> </tr> </tbody> </table> <p>For SDSL Condition for 1 cycle Step1:-25±2°C 30±3 min. Step2:Room temperature 15 min. Step3:+85±5°C 30±3 min. Step4: Room temperature 15 min. Number of cycles:50 Measured:50 times</p> | Phase | Temperature(°C) | Time(min) | 1 | -25±2°C | 30±3 | 2 | Room Temp. | 15 | 3 | +85±2°C | 30±3 | 4 | Room Temp. | 15 |
| Phase | Temperature(°C) | Time(min) | | | | | | | | | | | | | | | |
| 1 | -25±2°C | 30±3 | | | | | | | | | | | | | | | |
| 2 | Room Temp. | 15 | | | | | | | | | | | | | | | |
| 3 | +85±2°C | 30±3 | | | | | | | | | | | | | | | |
| 4 | Room Temp. | 15 | | | | | | | | | | | | | | | |
| Humidity Resistance Test | Appearance: no damage. Inductance: within±20%of initial value. | Temperature:40±2°C. Applied current:rated current. Duration:500 hrs. Humidity:90~95% | | | | | | | | | | | | | | | |
| High Temperature Resistance Test | Appearance: no damage. Inductance: within±20%of initial value. | Temperature:85±2°C. Applied current:rated current. Duration:500 hrs. | | | | | | | | | | | | | | | |
| Random Vibration Test | Appearance: Cracking, shipping and any other defects harmful to the characteristics should not be allowed. Inductance: within±20%of initial value. | Frequency: 10-55-10Hz for 1 min. Amplitude: 1.52mm Directions and times: X, Y, Z directions for 2 hours. A period of 2 hours in each of 3 mutually perpendicular directions (Total 6 hours). | | | | | | | | | | | | | | | |

8. Recommended PC Board Pattern



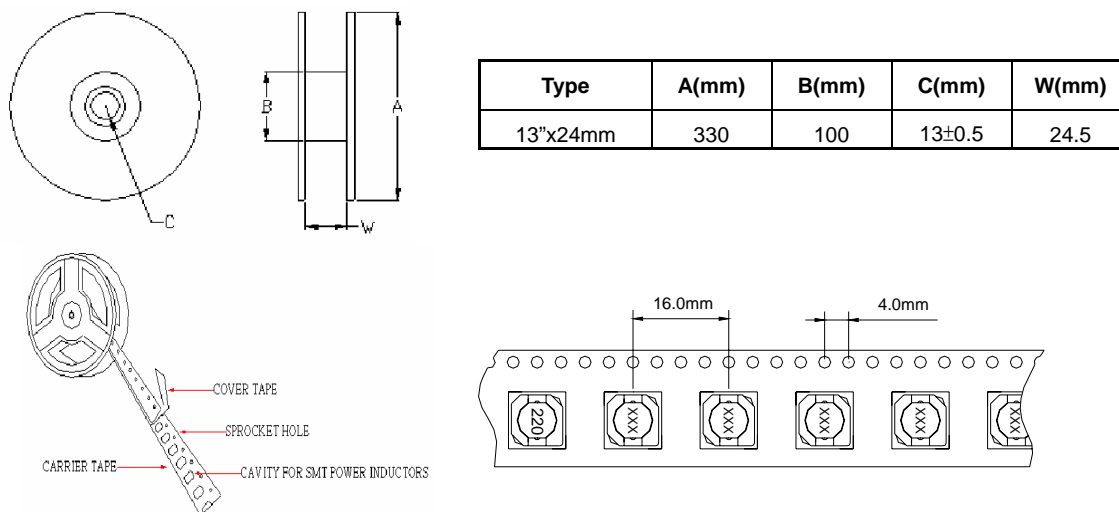
| SDSL | 10D50F |
|------|--------|
| L | 10.5 |
| G | 7.3 |
| H | 3.2 |

Units: mm



9. Packaging Information

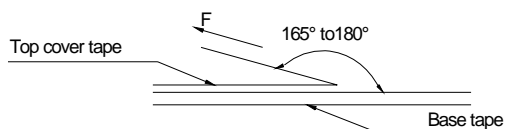
9-1. Reel Dimension & Tape Dimension



9-2. Packaging Quantity

| SDSL | 10D50F |
|-------------|----------|
| Chip / Reel | 750 |
| Carton | 4500 |
| Reel Style | 13"x24mm |

9-3. Tearing Off Force



The force for tearing off cover tape is 10 to 130 grams in the arrow direction under the following conditions (referenced ANSI/EIA-481-C-2003 of 4.11 standard).

| Room Temp. (°C) | Room Humidity (%) | Room atm (hPa) | Tearing Speed (mm/min) |
|-----------------|-------------------|----------------|------------------------|
| 5-35 | 45-85 | 860-1060 | 300 |

Application Notice

- Storage Conditions
 - To maintain the solderability of terminal electrodes:
 1. Temperature and humidity conditions: Less than 40°C and 60% RH.
 2. Recommended products should be used within 12 months from the time of delivery.
 3. The packaging material should be kept where no chlorine or sulfur exists in the air.
- Transportation
 1. Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
 2. The use of tweezers or vacuum pick up is strongly recommended for individual components.
 3. Bulk handling should ensure that abrasion and mechanical shock are minimized.

測試報告

Test Report

號碼(No.) : CE/2012/21594 日期(Date) : 2012/02/20 頁數(Page) : 1 of 8

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以下測試樣品係由客戶送樣，且由客戶聲稱並經客戶確認如下 (The following samples was/were submitted and identified by/on behalf of the client as):

樣品名稱(Sample Description) : SSL、SPL、SSLM、SDSW、SDSL、SDSG SERIES

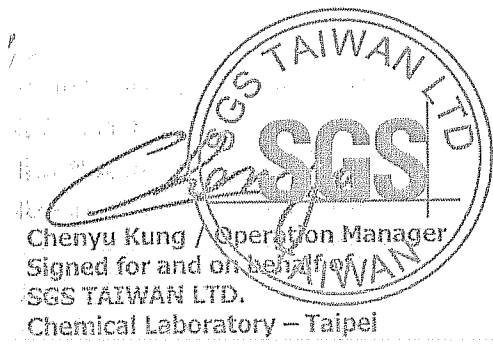
樣品型號(Style/Item No.) : SSL、SPL、SSLM、SDSW、SDSL、SDSG SERIES

收件日期(Sample Receiving Date) : 2012/02/14

測試期間(Testing Period) : 2012/02/14 TO 2012/02/20

測試結果(Test Results) : 請見下一頁 (Please refer to next pages).

(以下內容為測試結果之摘要)



Chenyu Kung / Operation Manager
 Signed for and on behalf of
 SGS TAIWAN LTD.
 Chemical Laboratory - Taipei

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測試結果(Test Results)

測試部位(PART NAME)No.1 : 整體混測 (MIXED ALL PARTS)

| 測試項目 (Test Items) | 單位 (Unit) | 測試方法 (Method) | 方法偵測 極限值 (MDL) | 結果 (Result) |
|---|--------------|--|----------------------|----------------|
| | | | | No.1 |
| 鎘 / Cadmium (Cd) | mg/kg | 參考IEC 62321: 2008方法, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES. | 2 | n.d. |
| 鉛 / Lead (Pb) | mg/kg | | 2 | n.d. |
| 汞 / Mercury (Hg) | mg/kg | | 2 | n.d. |
| 六價鉻 / Hexavalent Chromium Cr(VI) | mg/kg | 參考IEC 62321: 2008方法, 以UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS. | 2 | n.d. |
| 鹵素 / Halogen | | | | |
| 鹵素 (氟) / Halogen-Fluorine (F) (CAS No.: 14762-94-8) | mg/kg | 參考BS EN 14582:2007, 以離子層析儀分析. / With reference to BS EN 14582:2007. Analysis was performed by IC. | 50 | n.d. |
| 鹵素 (氯) / Halogen-Chlorine (Cl) (CAS No.: 22537-15-1) | mg/kg | | 50 | n.d. |
| 鹵素 (溴) / Halogen-Bromine (Br) (CAS No.: 10097-32-2) | mg/kg | | 50 | n.d. |
| 鹵素 (碘) / Halogen-Iodine (I) (CAS No.: 14362-44-8) | mg/kg | | 50 | n.d. |

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Test Report

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| 測試項目 (Test Items) | 單位 (Unit) | 測試方法 (Method) | 方法偵測 極限值 (MDL) | 結果 (Result) |
|----------------------------------|--------------|---|----------------------|----------------|
| | | | | No.1 |
| 多溴聯苯總和 / Sum of PBBs | mg/kg | 參考IEC 62321: 2008方法, 以氣相層析儀/ 質譜儀檢測. / With reference to IEC 62321: 2008 and performed by GC/MS. | - | n.d. |
| 一溴聯苯 / Monobromobiphenyl | mg/kg | | 5 | n.d. |
| 二溴聯苯 / Dibromobiphenyl | mg/kg | | 5 | n.d. |
| 三溴聯苯 / Tribromobiphenyl | mg/kg | | 5 | n.d. |
| 四溴聯苯 / Tetrabromobiphenyl | mg/kg | | 5 | n.d. |
| 五溴聯苯 / Pentabromobiphenyl | mg/kg | | 5 | n.d. |
| 六溴聯苯 / Hexabromobiphenyl | mg/kg | | 5 | n.d. |
| 七溴聯苯 / Heptabromobiphenyl | mg/kg | | 5 | n.d. |
| 八溴聯苯 / Octabromobiphenyl | mg/kg | | 5 | n.d. |
| 九溴聯苯 / Nonabromobiphenyl | mg/kg | | 5 | n.d. |
| 十溴聯苯 / Decabromobiphenyl | mg/kg | | 5 | n.d. |
| 多溴聯苯醚總和 / Sum of PBDEs | mg/kg | | - | n.d. |
| 一溴聯苯醚 / Monobromodiphenyl ether | mg/kg | | 5 | n.d. |
| 二溴聯苯醚 / Dibromodiphenyl ether | mg/kg | | 5 | n.d. |
| 三溴聯苯醚 / Tribromodiphenyl ether | mg/kg | | 5 | n.d. |
| 四溴聯苯醚 / Tetrabromodiphenyl ether | mg/kg | | 5 | n.d. |
| 五溴聯苯醚 / Pentabromodiphenyl ether | mg/kg | | 5 | n.d. |
| 六溴聯苯醚 / Hexabromodiphenyl ether | mg/kg | | 5 | n.d. |
| 七溴聯苯醚 / Heptabromodiphenyl ether | mg/kg | | 5 | n.d. |
| 八溴聯苯醚 / Octabromodiphenyl ether | mg/kg | | 5 | n.d. |
| 九溴聯苯醚 / Nonabromodiphenyl ether | mg/kg | 5 | n.d. | |
| 十溴聯苯醚 / Decabromodiphenyl ether | mg/kg | 5 | n.d. | |

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備註(Note) :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n.d. = Not Detected (未檢出)
3. MDL = Method Detection Limit (方法偵測極限值)
4. "-" = Not Regulated (無規格值)
5. 樣品的測試是基於申請人要求混合測試，報告中的混合測試結果不代表其中個別單一材質的含量。(The samples was/were analyzed on behalf of the applicant as mixing sample in one testing. The above results was/were only given as the informality value.)

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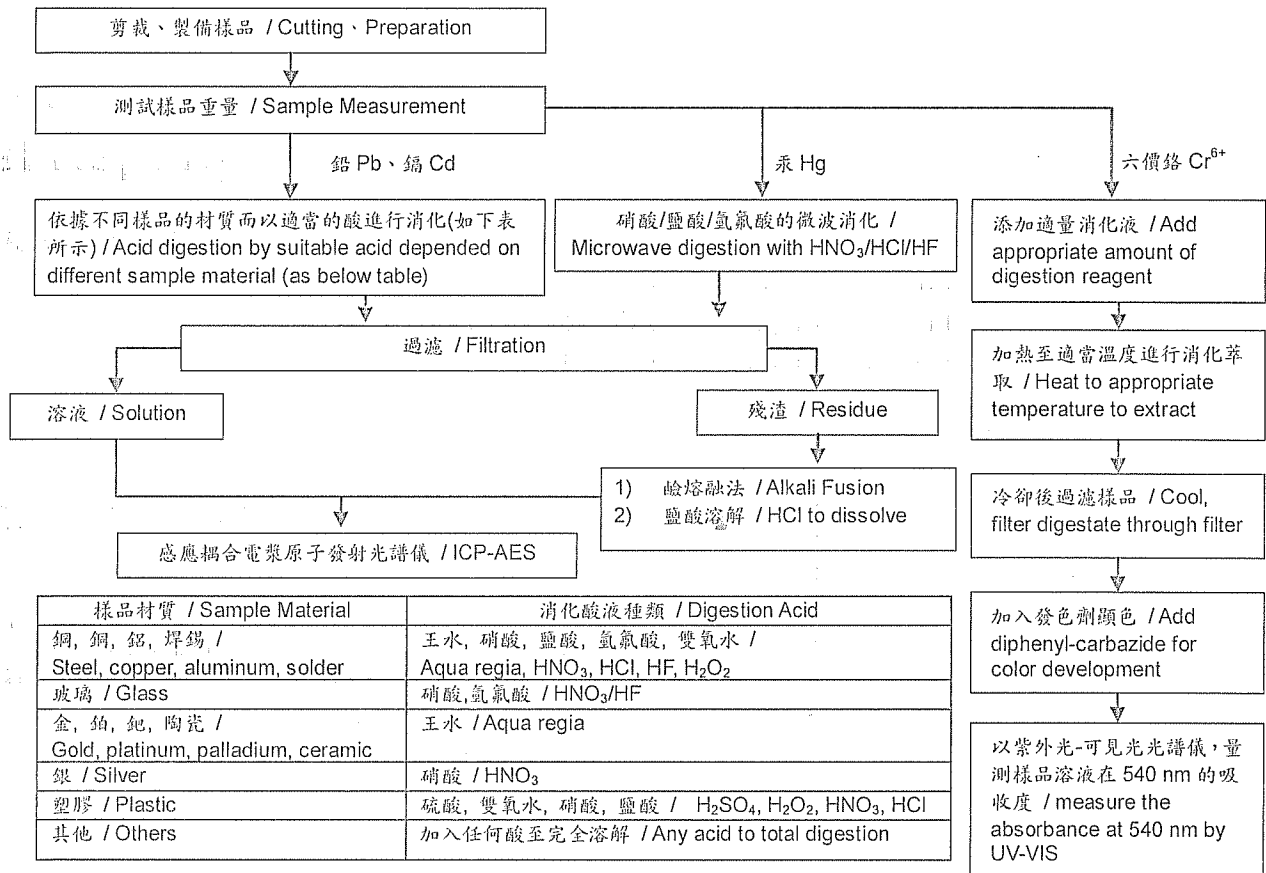
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- 1) 根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) 測試人員：楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



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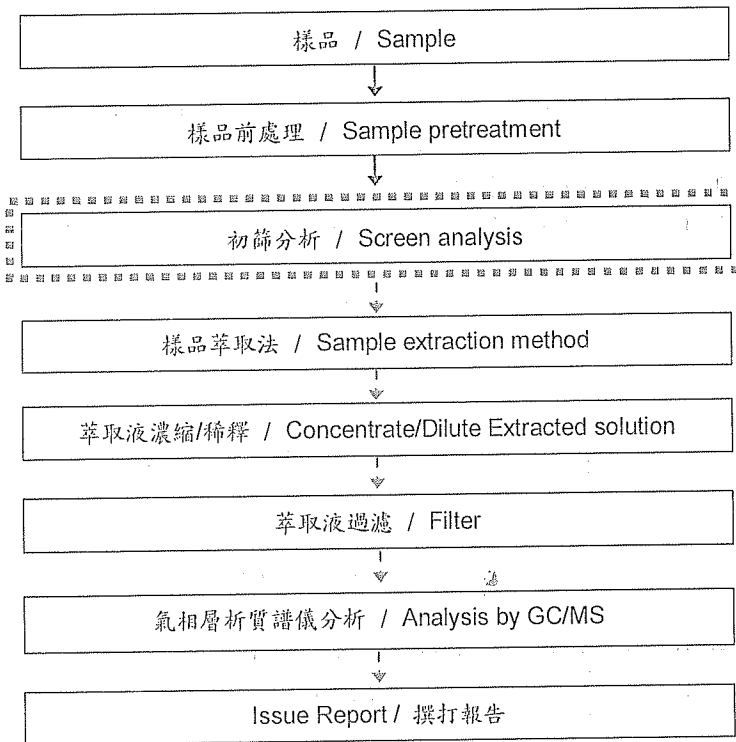
分析流程圖 / Analytical flow chart

■ 測試人員：翁賜彬 / Name of the person who made measurement: Roman Wong

■ 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang

【測試項目(Test Items): 多溴聯苯/多溴聯苯醚、四溴雙酚-A-雙 / PBB/PBDE, TBBP-A-bis】

初次測試程序 / First testing process → 選擇性篩檢程序 / Optional screen process 確認程序 / Confirmation process →

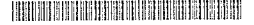


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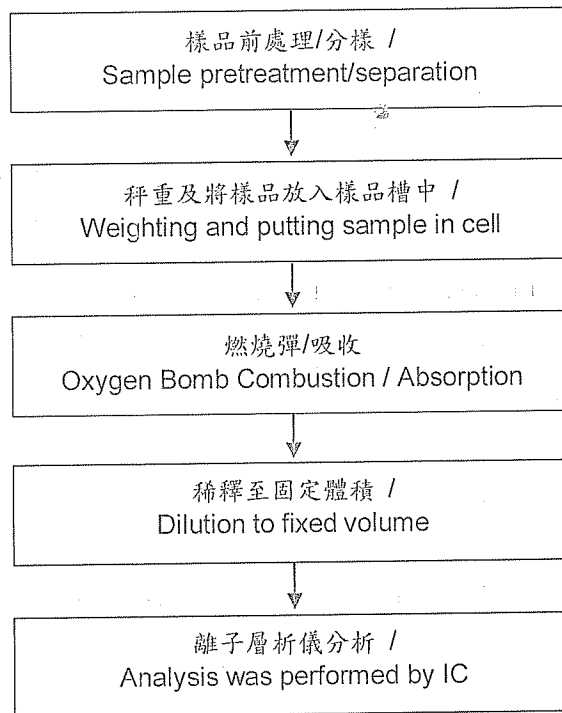
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鹵素分析流程圖 / Analytical flow chart of halogen content

- 1) 測試人員：陳恩臻 / Name of the person who made measurement: Rita Chen
- 2) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



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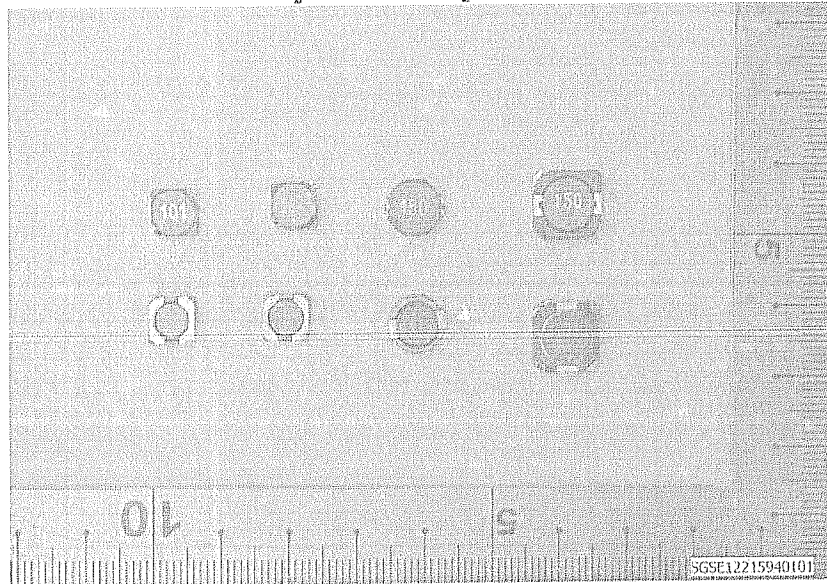
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* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。*

(The tested sample / part is marked by an arrow if it's shown on the photo.)

CE/2012/21594



** 報告結尾 (End of Report) **

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