Form No: XXXXXX-5-0000-TBM03-140500393

Specification for Approval

Date: 2014/06/03

Customer : 東莞台慶

TAI-TECH P/N: SSL6D28SF-SERIES

CUSTOMER P/N:

DESCRIPTION:

QUANTITY: pcs

REMARK:		
Customer Approval Feedback		

西 北 臺 慶 科 技 股 份 有 限 公 司
TAI-TECH Advanced Electronics Co., Ltd

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Sales Dep.

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管哲頎 Eric Kuan	曾詩涵 Angela Tseng

R&D Center

APPROVED	CHECKED	DRAWN
楊祥忠 Mike Yang	詹偉特 Jack Chan	徐允珮 Shelly Hsu

SMD Type Power Inductor

SSL6D28SF-SERIES

ECN HISTORY LIST

REV	DATE	DESCRIPTION	APPROVED	CHECKED	DRAWN
1.0	14/06/03	新 發 行	楊祥忠	詹偉特	徐允珮
備 註					

SMD Type Power Inductor

SSL6D28SF-SERIES

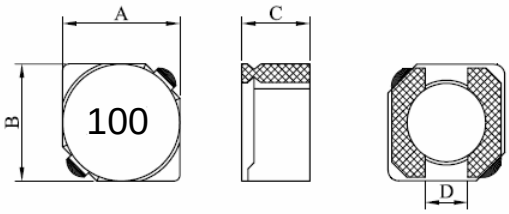
1. Features

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.

Halogen-free

Pb-free

2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)
SSL6D28SF	7.1 max.	7.1 max.	3.0 max.	2.0 ref.

Units: mm

3. Part Numbering

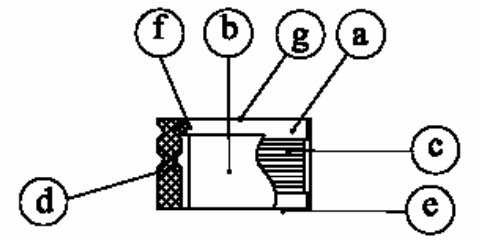
SSL	6D28	SF	-	100	Y
A	B	C		D	E

A: Series (the tin clip)
B: Dimension
C: Lead free type
D: Inductance 100=10.0uH , 3R0=3.0uH, 101=100uH
E: Inductance Tolerance Y=±30%

4. Specification

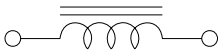
Customer Part Number	TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) max.	IDC (A) max.
	SSL 6D28SF-3R0Y	3.0	± 30%	0.1V/10K	0.024	3.00
	SSL 6D28SF-3R9Y	3.9	± 30%	0.1V/10K	0.027	2.60
	SSL 6D28SF-5R0Y	5.0	± 30%	0.1V/10K	0.031	2.40
	SSL 6D28SF-6R0Y	6.0	± 30%	0.1V/10K	0.035	2.25
	SSL 6D28SF-7R3Y	7.3	± 30%	0.1V/10K	0.054	2.10
	SSL 6D28SF-8R6Y	8.6	± 30%	0.1V/10K	0.058	1.85
	SSL 6D28SF-100M	10	±20%	0.1V/10K	0.065	1.70
	SSL 6D28SF-120M	12	±20%	0.1V/10K	0.070	1.55
	SSL 6D28SF-150M	15	±20%	0.1V/10K	0.084	1.40
	SSL 6D28SF-180M	18	±20%	0.1V/10K	0.095	1.32
	SSL 6D28SF-220M	22	±20%	0.1V/10K	0.128	1.20
	SSL 6D28SF-270M	27	±20%	0.1V/10K	0.142	1.05
	SSL 6D28SF-330M	33	±20%	0.1V/10K	0.165	0.97
	SSL 6D28SF-390M	39	±20%	0.1V/10K	0.210	0.86
	SSL 6D28SF-470M	47	±20%	0.1V/10K	0.238	0.80
	SSL 6D28SF-560M	56	±20%	0.1V/10K	0.277	0.73
	SSL 6D28SF-680M	68	±20%	0.1V/10K	0.304	0.65
	SSL 6D28SF-820M	82	±20%	0.1V/10K	0.390	0.60
	SSL 6D28SF-101M	100	±20%	0.1V/10K	0.535	0.54

5. Material List

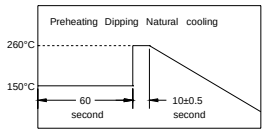
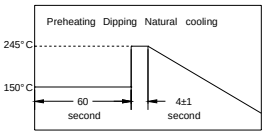


No.	Item	Materials
a.	Core	Ferrite Core (DR Type)
b.	Core	Ferrite Core (RI Type)
c.	Wire	Copper Wire
d.	Terminal	The Tin Plate
e.	Adhesive	Epoxy
f.	Adhesive	Epoxy
g.	Ink	White

6. Schematic Diagram

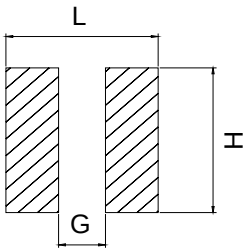


7. Reliability and Test Condition

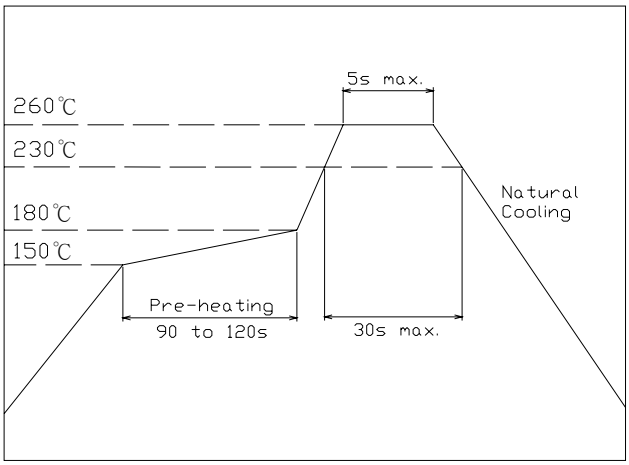
<table>
<tr><th>Item</th><th>Performance</th><th>Test Condition</th></tr>
<tr><td>Operating Temperature</td><td>-40~+85℃</td><td></td></tr>
<tr><td>Storage temperature</td><td>-40~+85℃(For products in unopened tape package, less than 40℃)</td><td></td></tr>
<tr><td>Rated Current</td><td>Base on temp. rise & △L/LOA≦35%</td><td></td></tr>
<tr><td>Temperature Rise Test</td><td>40℃ typ. (△t)</td><td></td></tr>
<tr><td>Solder heat Resistance</td><td>Appearance: No significant abnormality.
Inductance change: Within ± 20%.
  </td><td>Preheat:150℃,60sec.
Solder : Sn-Ag3.0-Cu0.5
Solder tamperature:260±5℃
Flux: rosin
Dip time:10±0.5sec.</td></tr>
<tr><td>Solderability</td><td>More than 90% of the terminal electrode should be covered with solder.
  </td><td>Preheat:125±25℃,60sec.
Solder : Sn-Ag3.0-Cu0.5
Solder tamperature:245±5℃
Flux: rosin
Dip time:4±1sec.</td></tr>
<tr><td>Thermal shock</td><td>Appearance: no damage.
Inductance: within±10%of initial value.
<table><tr><th>Phase</th><th>Temperature(℃)</th><th>Time(min)</th></tr><tr><td>1</td><td>-55±2℃</td><td>30±3</td></tr><tr><td>2</td><td>Room Temp.</td><td>5</td></tr><tr><td>3</td><td>+85±2℃</td><td>30±3</td></tr><tr><td>4</td><td>Room Temp.</td><td>5</td></tr></table>Measured:100 times</td><td>For SSL
Condition for 1 cycle
Step1:-55±2℃ 30±3 min.
Step2:Room temperature 5 min.
Step3:+85±2℃ 30±3 min.
Step4: Room temperature 5 min.
Number of cycles:100
(MIL-STD-202G METHOD 107)</td></tr>
</table>

Item	Performance	Test Condition
Humidity Resistance Test	Appearance: no damage. Inductance: within±10%of initial value.	Temperature:40±2℃. Applied current:rated current. Duration:500±8 hrs. Humidity:90~95% (MIL-STD-202G METHOD 103)
High Temperature Resistance Test	Appearance: no damage. Inductance: within±10%of initial value.	Temperature:85±2℃. Applied current:rated current. Duration:500±8 hrs. (MIL-STD-202G METHOD 108
Random Vibration Test	Appearance: Cracking, shipping and any other defects harmful to the characteristics should not be allowed. Inductance: within±30%	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).

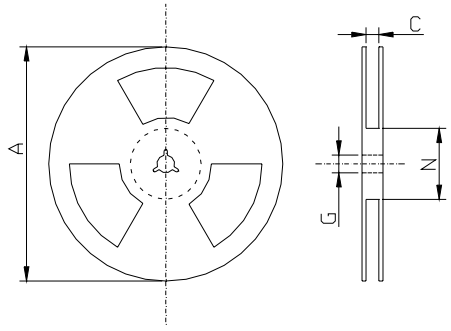
8. Recommended PC Board Pattern



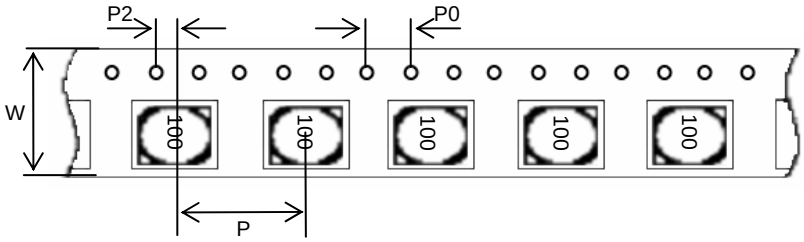
L(mm)	G(mm)	H(mm)
7.3	2.0	7.3



9. Packaging Information



Style	A(mm)	C(mm)	G(mm)	N(mm)
13”X16mm	330	18^{+0}	13.5±0.5	50^{-0}



Style	W(mm)	P(mm)	P2(mm)	D(mm)	Po(mm)	Packaging Qty(pcs)
16mm	16±0.3	12±0.1	2±0.1	1.5±0.25	4±0.1	1,000

Application Notice

・Storage Conditions
To maintain the solderability of terminal electrodes:
1. TAI-TECH products meet IPC/JEDEC J-STD-020D standard-MSL, level 1
2. Temperature and humidity conditions: Less than 40℃ and 60% RH.
3. Recommended products should be used within 12 months form the time of delivery.
4. 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.

簽名有效
For Question,
Please Contact with SGS
www.tw.sgs.com

測試報告
Test Report

號碼(No.) : CE/2014/23202 日期(Date) : 2014/02/24 頁數(Page) : 1 of 11

西北臺慶科技股份有限公司 / TAI-TECH ADVANCED ELECTRONICS CO., LTD.
(東莞臺慶精密電子有限公司 / TAI-TECH ADVANCED ELECTRONICS (DONGGUAN) CO. LTD.)
(臺慶精密電子(昆山)有限公司 / TAI-TECH ADVANCED ELECTRONICS (KUN-SHAN) CO. LTD.)
(耀鑽科技股份有限公司 / YOSONIC TECHNOLOGY CO., LTD.)
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以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as):

樣品名稱(Sample Description)	:	WIREWOUND POWER INDUCTOR
樣品型號(Style/Item No.)	:	SSL, SPL, SSLM, SDSW, SDSL, SDSG SERIES
收件日期(Sample Receiving Date)	:	2014/02/17
測試期間(Testing Period)	:	2014/02/17 TO 2014/02/24

==========

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

SGS TAIWAN LTD
Troy Chang / Manager-Tech
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory – Taipei

測試報告
Test Report

西北臺慶科技股份有限公司 / TAI-TECH ADVANCED ELECTRONICS CO., LTD.
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(臺慶精密電子(昆山)有限公司 / TAI-TECH ADVANCED ELECTRONICS (KUN-SHAN) CO. LTD.)
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(廣東省東莞市黃江鎮黃牛埔福祥街2號 / NO. 2, FUXIANG STREET, HUANGNIUPU, HUANGJIANG TOWN, DONGGUAN, GUANGDONG)
(江蘇省昆山市錦凇昆嘉高科技工業區郭澤路 / GUO-ZE ROAD, KUNJIA HI-TECH INDUSTRIAL PARK, KUN-SHAN, JIANG-SU, CHINA)
(桃園縣中壢市中壢工業區長春六路15號 / NO. 15, CHANGCHUN 6TH RD., JHONGLI CITY, TAOYUAN COUNTY 320, TAIWAN)

測試結果(Test Results)

測試部位(TEST 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 62321-5: 2013方法，以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.
鉛 / Lead (Pb)	mg/kg		2	n.d.
汞 / Mercury (Hg)	mg/kg	參考IEC 62321-4: 2013方法，以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-4: 2013 and performed by ICP-AES.	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.
六溴環十二烷(HBCDD)及所有主要被辨別出的異構物 / Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β- HBCDD, γ- HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	mg/kg	參考IEC 62321: 2008方法，以氣相層析/質譜儀檢測. / With reference to IEC 62321: 2008 method. Analysis was performed by GC/MS.	5	n.d.

測試報告
Test Report

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西北臺慶科[illegible]股份有限公司 / TAI-TECH ADVANCED ELECTRONICS CO., LTD.
(東莞臺慶[illegible]子有限公司 / TAI-TECH ADVANCED ELECTRONICS (DONGGUAN) CO. LTD.)
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(桃園縣中壢市中[illegible]工業區長春六路15號 / NO. 15, CHANGCHUN 6TH RD., JHONGLI CITY, TAOYUAN COUNTY 320, TAIWAN)

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
鄰苯二甲[illegible]苄丁酯 / BBP (Benzyl butyl phthalate) (CAS No.: 85-68-[illegible]	%	參考EN 14372, 以氣相層析/質譜儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
鄰苯二甲酸[illegible](2-乙基己基)酯 / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	%	參考EN 14372, 以氣相層析/質譜儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
鄰苯二甲酸二異癸酯 / DIDP (Di-isodecyl phthalate) (CAS No.: 26761-40-[illegible]; 68515-49-1)	%	參考EN 14372, 以氣相層析/質譜儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.
鄰苯二甲[illegible]壬酯 / DINP (Di-isononyl phthalate) (CAS No.: 28553-12-[illegible]; 68515-48-0)	%	參考EN 14372, 以氣相層析/質譜儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.
鄰苯二甲[illegible]辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)	%	參考EN 14372, 以氣相層析/質譜儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
鄰苯二甲[illegible]丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	%	參考EN 14372, 以氣相層析/質譜儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
鄰苯二甲[illegible]異丁酯 / DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)	%	參考EN 14372, 以氣相層析/質譜儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.

測試報告
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西北臺灣科技股份有限公司 / TAI-TECH ADVANCED ELECTRONICS CO., LTD.

(東莞臺[illegible]電子有限公司 / TAI-TECH ADVANCED ELECTRONICS (DONGGUAN) CO. LTD.)

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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[illegible] / Sum of PBBs	mg/kg	參考IEC 62321: 2008方法，以氣相層析/質譜儀檢測. / With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.
一溴聯苯 / [illegible]bromobiphenyl	mg/kg		5	n.d.
二溴聯苯 [illegible]romobiphenyl	mg/kg		5	n.d.
三溴聯苯 / [illegible]ribromobiphenyl	mg/kg		5	n.d.
四溴聯苯 [illegible]tetrabromobiphenyl	mg/kg		5	n.d.
五溴聯苯 [illegible]pentabromobiphenyl	mg/kg		5	n.d.
六溴聯苯 / Hexabromobiphenyl	mg/kg		5	n.d.
七溴聯苯 / [illegible]heptabromobiphenyl	mg/kg		5	n.d.
八溴聯苯 [illegible]octabromobiphenyl	mg/kg		5	n.d.
九溴聯苯 [illegible]nonabromobiphenyl	mg/kg		5	n.d.
十溴聯苯 [illegible]decabromobiphenyl	mg/kg		5	n.d.
多溴聯苯醚[illegible] / Sum of PBDEs	mg/kg		-	n.d.
一溴聯苯[illegible] / [illegible]monobromodiphenyl ether	mg/kg		5	n.d.
二溴聯苯[illegible] / [illegible]dibromodiphenyl ether	mg/kg		5	n.d.
三溴聯苯 / [illegible]tribromodiphenyl ether	mg/kg		5	n.d.
四溴聯苯[illegible] / [illegible]tetrabromodiphenyl ether	mg/kg		5	n.d.
五溴聯苯[illegible] / [illegible]pentabromodiphenyl ether	mg/kg		5	n.d.
六溴聯苯[illegible] / [illegible]hexabromodiphenyl ether	mg/kg		5	n.d.
七溴聯苯[illegible] / [illegible]heptabromodiphenyl ether	mg/kg		5	n.d.
八溴聯苯[illegible] / [illegible]octabromodiphenyl ether	mg/kg		5	n.d.
九溴聯苯[illegible] / [illegible]nonabromodiphenyl ether	mg/kg		5	n.d.
十溴聯苯[illegible] / [illegible]decabromodiphenyl ether	mg/kg		5	n.d.

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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
鹵素 / Halogen				
鹵素 (氟) Halogen-Fluorine (F) (CAS No.: [illegible])	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.: [illegible])	mg/kg		50	n.d.
鹵素 (溴) Halogen-Bromine (Br) (CAS No.: [illegible])	mg/kg		50	n.d.
鹵素 (碘) Halogen-Iodine (I) (CAS No.: [illegible])	mg/kg		50	n.d.

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[illegible]是依申請人要求混合測試之[illegible]的混合測試結果不代表其中個別單一材質的含量. (The samples were [illegible] on behalf of the applicant as mixing sample in one testing. The above results were [illegible] only given as the information value.)

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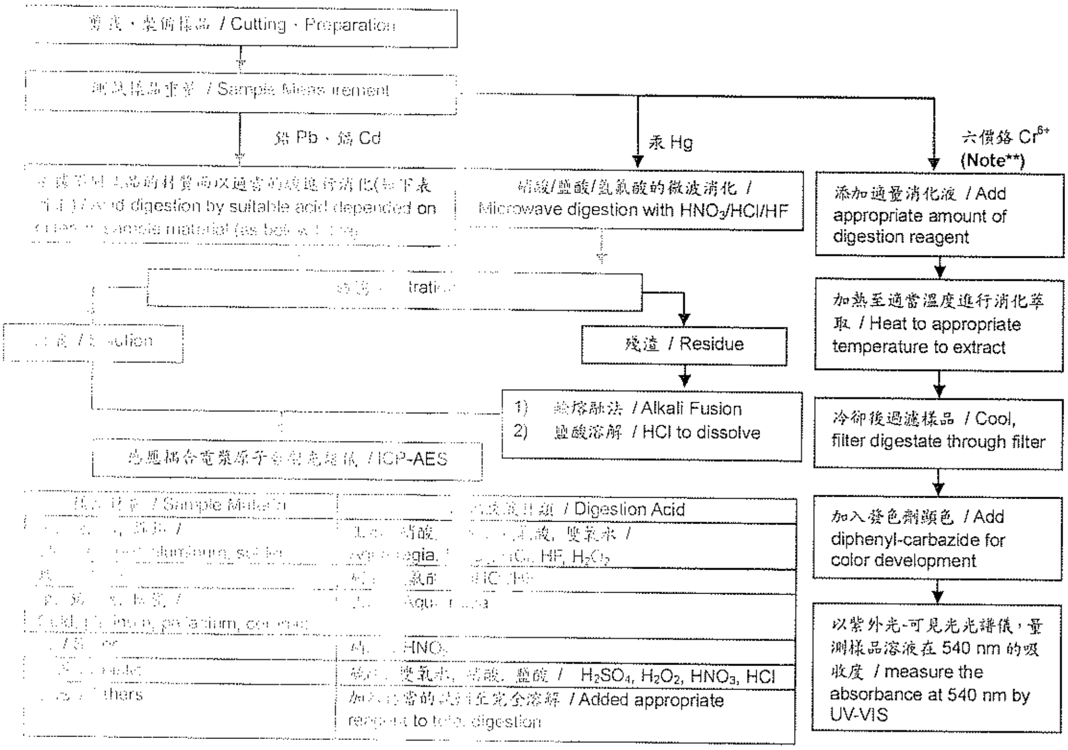
1) 根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr^{6+} test method excluded)
2) 測試人員：楊 / Name of the person who made measurement: Climbgreat Yang
3) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



Note**: (For IEC 62321)
(1) 針對非金屬材質加入鹼性消化液，加熱至90~95℃萃取。/ For non-metallic material, add alkaline digestion reagent and heat to 90~95℃.
(2) 針對金屬材質加入純水，加熱至沸騰萃取。/ For metallic material, add pure water and heat to boiling.

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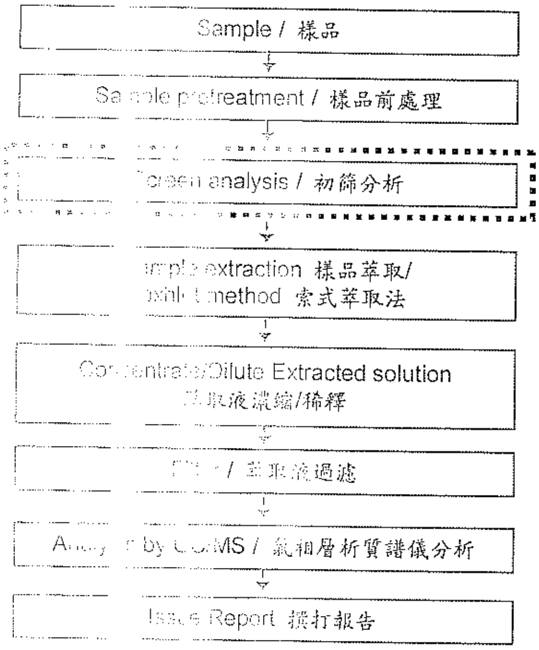
多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

測試人員：黃鴻明 / Name of the person who made measurement: Roman Wong
測試負責人：張啓鴻 / Name of the person in charge of measurement: Troy Chang
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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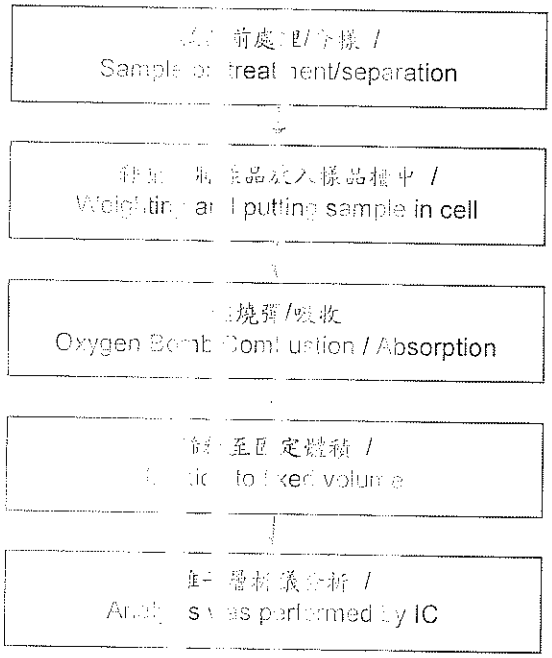
鹵素分析流程圖 / [illegible]ical flow chart of halogen content

- 測試人員：陳恩琳 / Name of the person who made measurement: Rita Chen
- 測試負責人：張晉興 / Name of [illegible]e person in charge of measurement: Troy Chang



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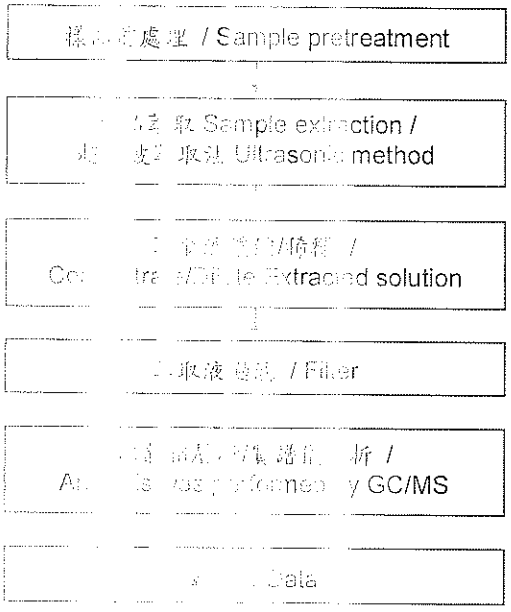
六溴環十二烷(HBCDD)流程圖 / HBCDD analytical flow chart

測試人員：翁瑪彬 / 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



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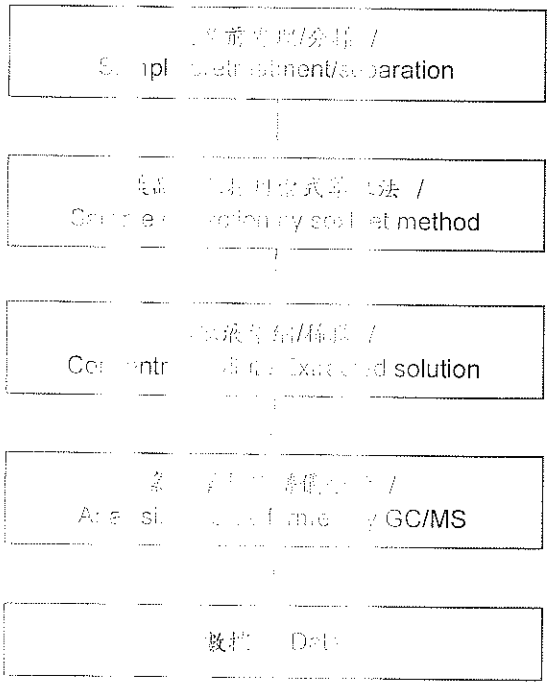
可塑劑分析流程圖 Analytical flow chart of **phthalate content**

測試人員：翁賜彬 / Name of the person who made measurement: Roman Wong
測試負責人：張學興 / Name of the person in charge of measurement: Troy Chang



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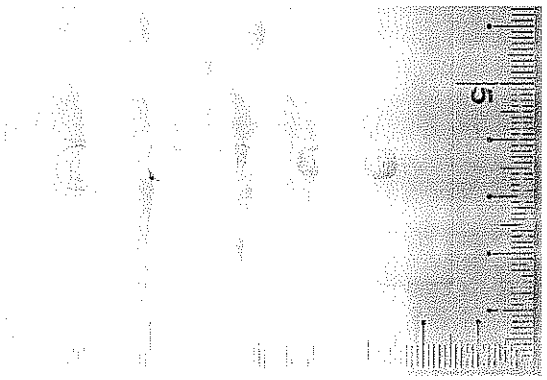
* 照片中所[illegible]品或部位(若[illegible]顯示)為實際檢測之樣品/部位. *

(The tested sample / part [illegible] (if it's shown on the photo.)

[illegible]2014/2[illegible]02



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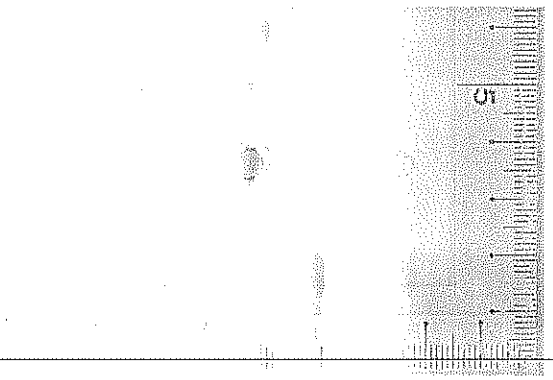

[illegible] End [illegible] **

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