

承認書

APPROVED DATA

Company Name : Digi International

Customer Part Number : _____

Pinrex Part Number : 984-63-052202

Description : Mini PCI Express Socket
0.8Pitch 52P

| | | |
|--|--|--|
| | | |
| | | |

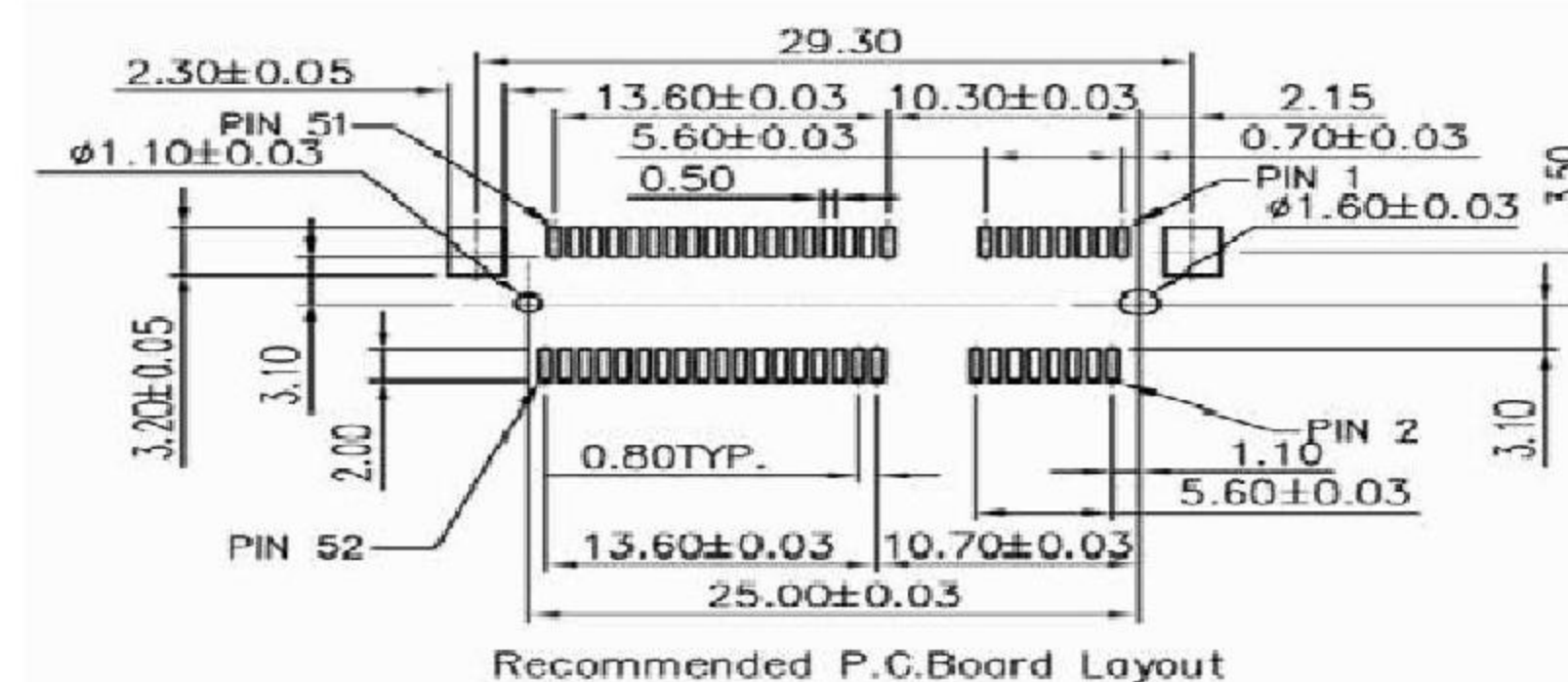
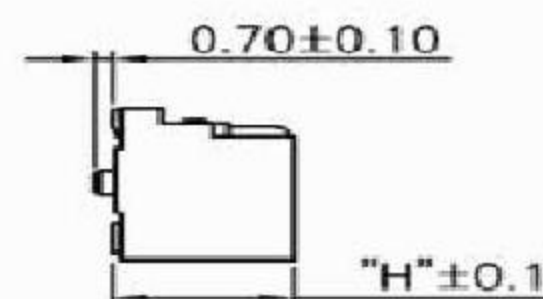
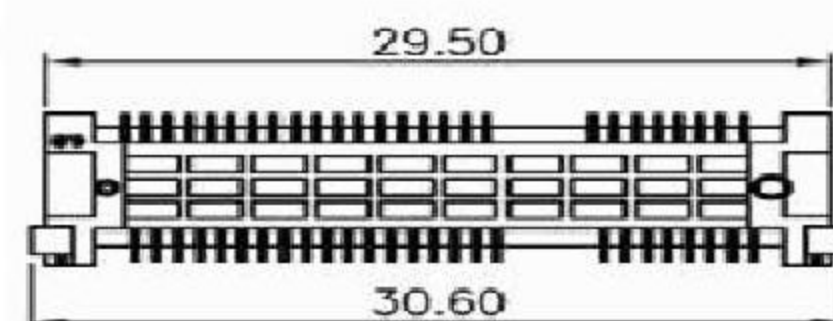
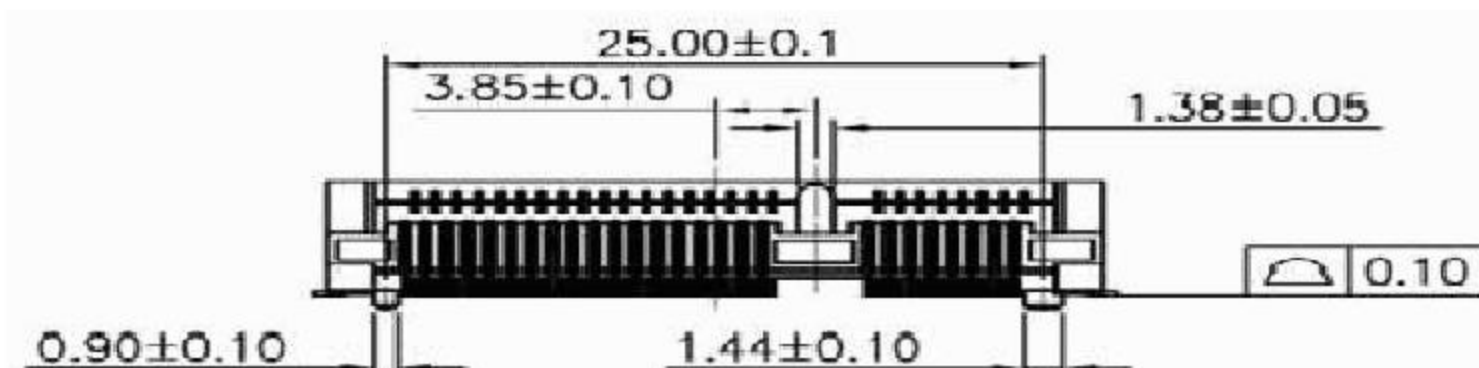
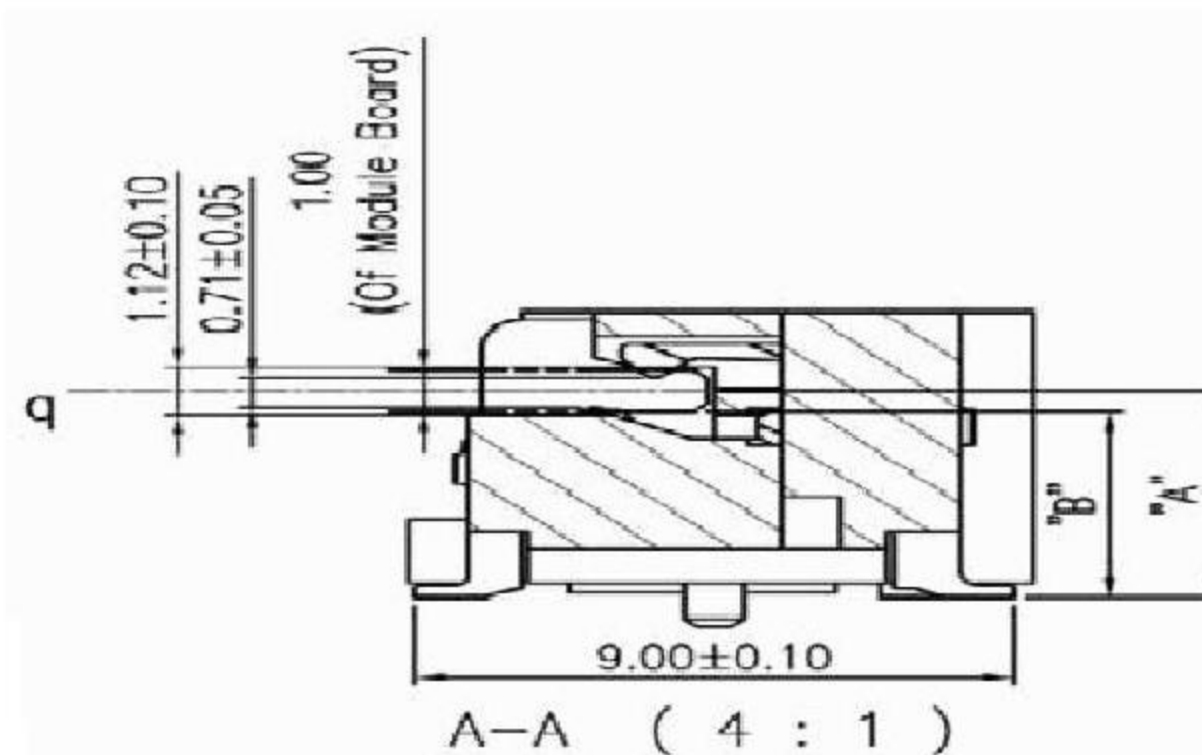
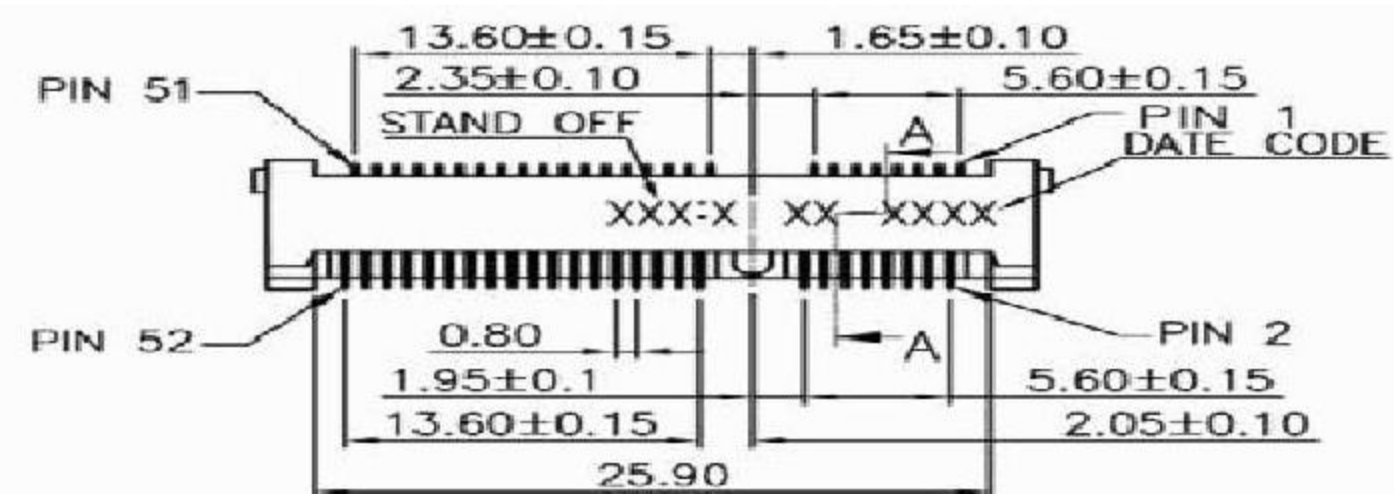


頻銳科技股份有限公司
PINREX TECHNOLOGY CORP.

3FL-3,NO.16,LANE 609,SEC.5,CHUNG HSIN ROAD
SAN CHUNG CITY,TAIPEI HSIEN,TAIWAN R.O.C.

TEL : (02) 2999-9001 FAX : (02) 2999-9002

本公司通過 QA ISO9000 及 140001 認證



Material:
Housing: High Temperature Plastic UL94V-0
Contact: Brass
Contact Area: Gold flash
Solder: Lead Free

984- 63 - 052 2 0 2
1 2 3 4 5

- 1: Bag
- 2: TUBE
- 3: Tape Reel
- 052: 52Pin
- 1: DIP 90°
- 2: SMT 90°
- 0: H=6.8mm A=4.9 B=4.4
- Pinrex internal code.

| | | | | | | | | | | | | |
|------|-------------|------------|--------------------------------------|------------|------|------------------------------|------|-------|--|--|---|--|
| | | | <u>TOLERANCE</u> | | | OLD PART NO. 119A-68C00-R | | | TITLE MINI PCI Express Socket 0.8Pitch | | 頻銳科技股份有限公司 PINREX TECHNOLOGY CORP. | |
| | | | .0 =±.30 .00 =±.20 .000 =±.XXX | UNITS : mm | | DRAWER Naomi | | CHECK | | | | |
| A | RELEASE | 2008/02/14 | .0000=±. | SCALE | SIZE | SHEET | REV. | APP'D | NEW PART NO. | | DRAW NO. | |
| REV. | DESCRIPTION | DATE | ANG.=±3° | NONE | A4 | 1 OF 1 | A | | 984-63-052202 | | 984-63-052202 | |

Scope:

This specification covers the requirements for product performance, test methods and quality assurance provisions of Mini PCI Express.

Performance and Descriptions:

The product is designed to meet the electrical, mechanical and environmental performance requirements specification. Unless otherwise specified, all tests are performed at ambient environmental conditions.

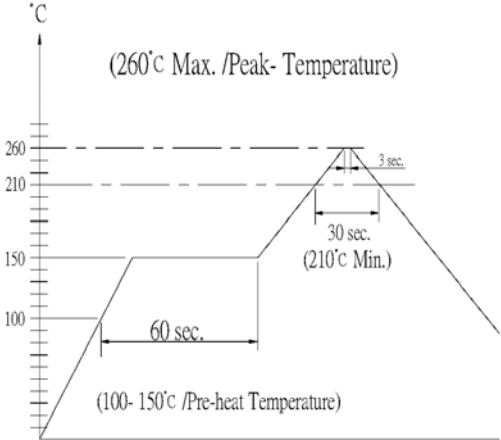
ROHS:

All material in according with the ROHS environment related substances list controlled.

| MATERIAL AND FINISH | | |
|---------------------|--|---|
| INSULATOR | Material | Housing: High Temperature Plastic UL94V-0 |
| | | |
| CONTACT | Material | Brass |
| | Plating | Contact Plating: 3u” and 15u” selective gold. Solder: Lead free. |
| SHELL OR COVER | Material | Latch: Stainless |
| | Plating | |
| OTHERWISE SPECIFIED | Voltage rating: 50VAC Current: 0.5A Operating Temperature: -55℃~+85℃ | |

| ELECTRICAL | | |
|-----------------------|---|--|
| Item | Requirement | Test Condition |
| Contact resistance | 30 milliohms | Subject mated contacts assembled in housing to closed circuit current of 10mA(max) at open circuit voltage of 20mV voltage(Max). |
| Insulation resistance | 500M Ω (Min) | Measured by applying 500VDC between adjacent contacts of unmated connector. |
| Dielectric Strength | No breakdown Current leakage: 0.5mA | Measured by applying 250VAC for one minute between adjacent contacts of unmated connector assemblies. MIL-STD-202 method 301 |
| | | |

| MECHANICAL | | |
|------------------|---|---|
| Item | Requirement | Test Condition |
| Vibration test | No electrical discontinuity greater than 1 microsecond. $\Delta R=20m\Omega$ Max | Subject mated connectors to 10-55-10 Hz traversed in 1 minute at 1.52mm amplitude 2 hours each of 3 mutually perpendicular planes. MIL-STD-202 method 201. |
| Physical shock | 1.No electrical discontinuity greater than 1 microsecond 2. $\Delta R=20m\Omega$ Max. No physical damage. | Subject mated connector to 50G's , half-sine shock pulses of 11 millisecond duration , 3drops in each direction applied along the 3 mutually perpendicular planes total 18 drops. MIL-STD-202 method 202. |
| PCB mating force | 124pos. 51.5N(5.3Kgf) Max. | Operation speed: 100mm/min measure the force required to mate connectors. |
| Durability | $\Delta R=20m\Omega$ Max | Repeat insertion and extraction of PCB to and from the connector with the turns to lock it and then unlock it for 100 cycles. |
| | | |

| SOLDER ABILITY | | |
|--|----------------------------------|--|
| Item | Requirement | Test Condition |
| Solder ability | Wet solder coverage: 95% Min. | Solder temperature: 260±5°C Immersion duration: 3±0.5sec. |
| Resistance to Soldering heat. | No physical damage. | |
| <div>  <p>(260°C Max. /Peak- Temperature)</p> <p>260 210 150 100</p> <p>60 sec.</p> <p>30 sec. (210°C Min.)</p> <p>3 sec.</p> <p>(100- 150°C /Pre-heat Temperature)</p> <p>AVERAGE RANGE UP : 1.5°C /sec MAX.</p> <p>TEMPERATURE CONDITION GRAPH (TEMPERATURE ON BOARD PATTERN SIDE)</p> </div> | | |

| ENVIRONMENTAL | | |
|---------------|---|--|
| Item | Requirement | Test Condition |
| Humidity | 1.Contact resistance: △R=20mΩ Max 2.Insulation resistance: 500mΩ Min. 3.No physical damage. | Expose the mated connectors to 40±2°C Relative humidity 90~95% for 96 hours. MIL-STD-202 method 103. |
| Thermal shock | 1.Contact resistance: △R=20mΩ Max. No physical damage | Expose the mated connectors to -55°C/30min and 85°C/30min. Repeat 5 cycles. |
| | | |

測試報告

號碼 : CE/2006/C3886

日期 : 2006/12/25

頁數 : 1 of 4

福興實業股份有限公司

FU HSING INDUSTRIAL CO., LTD.

台北市延平南路74號

74, YEN PING SOUTH ROAD, TAIPEI, 100-34 TAIWAN



本報告為客戶所委託的樣品，樣品名稱為"VECTRA LCP"所做的測試。

Report on the submitted sample said to be VECTRA LCP.

樣品型號(Style/Item No) : A130 BK010P、E130i BK205P、E130i BK210P、E130i BK211P、
E471i BK210P、E471i BK211P、E472i BK210P、E473i BK210P、
E480i BK210P、T130 BK005P、S135 BK010P、A150B BK213P、
L140 BK210P


收件日期(Sample Receiving Date) : 2006/12/18

測試期間(Testing Period) : 2006/12/18 TO 2006/12/25

測試需求 / Test Requested : 參照 RoHS 2002/95/EC 及其修定指令要求。 / In accordance with
the RoHS Directive 2002/95/EC, and its amendment directives.

測試方法 / Test Method : (1) 參考BS EN 1122方法B:2001, 用感應耦合電漿原子發射光譜儀檢測鎘含量。 / With reference to BS EN 1122:2001, Method B for
Cadmium Content. Analysis was performed by ICP-AES.
(2) 參考US EPA 3050B方法, 用感應耦合電漿原子發射光譜儀檢測鉛含量。 / With reference to US EPA Method 3050B for Lead
Content. Analysis was performed by ICP-AES.
(3) 參考US EPA 3052方法, 用感應耦合電漿原子發射光譜儀檢測汞含量。 / With reference to US EPA Method 3052 for Mercury
Content. Analysis was performed by ICP-AES.
(4) 針對非金屬材質之樣品, 參考IEC 62321, Ed. 1 111/54/CDV方法檢測, 用UV-VIS檢測六價鉻含量。 / With reference to IEC 62321,
Ed.1 111/54/CDV. Determination of Hexavalent Chromium for
non-metallic samples by UV/Vis Spectrometry.
(5) 參考US EPA 3540C方法, 以氣相層析儀/質譜儀(GC/MS)檢測多溴聯
苯和多溴聯苯醚含量。 / With reference to US EPA 3540C for
PBBs/PBDEs Content. Analysis was performed by GC/MS.

測試結果 / Test Result(s) : 請見下一頁。


Daniel Yeh, M.R. / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.

測試報告

號碼：CE/2006/C3886

日期：2006/12/25

頁數：2 of 4

福興實業股份有限公司

FU HSING INDUSTRIAL CO., LTD.

台北市延平南路74號

74, YEN PING SOUTH ROAD, TAIPEI, 100-34 TAIWAN



測試結果 (單位: mg/kg) / Test Result(s)

| 測試項目 / Test Item (s): | 測試方法 Method (Refer to) | 結果 / Result | 方法偵測 極限值 (MDL) |
|--|------------------------------|-------------|----------------------|
| | | No.1 | |
| 鎘 / Cadmium (Cd) | (1) | n.d. | 2 |
| 鉛 / Lead (Pb) | (2) | n.d. | 2 |
| 汞 / Mercury (Hg) | (3) | n.d. | 2 |
| 六價鉻 / Hexavalent Chromium (CrVI) by alkaline extraction | (4) | n.d. | 2 |
| 多溴聯苯總和 / Sum of PBBs | (5) | n.d. | - |
| 一溴聯苯 / Monobromobiphenyl | | n.d. | 5 |
| 二溴聯苯 / Dibromobiphenyl | | n.d. | 5 |
| 三溴聯苯 / Tribromobiphenyl | | n.d. | 5 |
| 四溴聯苯 / Tetrabromobiphenyl | | n.d. | 5 |
| 五溴聯苯 / Pentabromobiphenyl | | n.d. | 5 |
| 六溴聯苯 / Hexabromobiphenyl | | n.d. | 5 |
| 七溴聯苯 / Heptabromobiphenyl | | n.d. | 5 |
| 八溴聯苯 / Octabromobiphenyl | | n.d. | 5 |
| 九溴聯苯 / Nonabromobiphenyl | | n.d. | 5 |
| 十溴聯苯 / Decabromobiphenyl | | n.d. | 5 |
| 多溴聯苯醚總和 (一至九溴) / Sum of PBDEs (Mono to Nona) (Note 4) | | n.d. | - |
| 一溴聯苯醚 / Monobromobiphenyl ether | | n.d. | 5 |
| 二溴聯苯醚 / Dibromobiphenyl ether | | n.d. | 5 |
| 三溴聯苯醚 / Tribromobiphenyl ether | | n.d. | 5 |
| 四溴聯苯醚 / Tetrabromobiphenyl ether | | n.d. | 5 |
| 五溴聯苯醚 / Pentabromobiphenyl ether | | n.d. | 5 |
| 六溴聯苯醚 / Hexabromobiphenyl ether | | n.d. | 5 |
| 七溴聯苯醚 / Heptabromobiphenyl ether | | n.d. | 5 |
| 八溴聯苯醚 / Octabromobiphenyl ether | | n.d. | 5 |
| 九溴聯苯醚 / Nonabromobiphenyl ether | | n.d. | 5 |
| 十溴聯苯醚 / Decabromobiphenyl ether | | n.d. | 5 |
| 多溴聯苯醚總和 (一至十溴) / Sum of PBDEs (Mono to Deca) | | n.d. | - |

測試部位描述 / Test Part Description:

NO.1 : 混測黑色塑膠粒 / MIXED BLACK PLASTIC PELLETS

測試報告

號碼：CE/2006/C3886

日期：2006/12/25

頁數：3 of 4

福興實業股份有限公司

FU HSING INDUSTRIAL CO., LTD.

台北市延平南路74號

74, YEN PING SOUTH ROAD, TAIPEI, 100-34 TAIWAN



Note: 1. mg/kg = ppm

2. n.d. = Not Detected / 未檢出

3. MDL = Method Detection Limit / 方法偵測極限值

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

根據2005年10月13日歐盟會議公佈2005/717/EC，修訂2002/95/EC內容，通過解除
高分子材質中十溴聯苯醚之使用限制。

5. "-" = Not Regulated / 無規格值

測試報告

號碼：CE/2006/C3886

日期：2006/12/25

頁數 : 4 of 4

福興實業股份有限公司

FU HSING INDUSTRIAL CO., LTD.

台北市延平南路74號

74, YEN PING SOUTH ROAD, TAIPEI, 100-34 TAIWAN



報 告 結 尾

Test Report

MINCHALI METAL INDUSTRY CO., LTD.
11, PEI YUAN ROAD, CHUNG LI CITY, TAIWAN, R. O. C.

No : CE/2006/A1255
Date : 20061016
Page : 1 of 5



The following sample(s) was/were submitted and identified by/on behalf of the client as :

| | | |
|-----------------------|---|-----------------------------------|
| Sample Description | : | 黃銅 |
| Style/Item No | : | C2680 (65/35) |
| Manufacturer/Vendor | : | MINCHALI METAL INDUSTRY CO., LTD. |
| Country of Origin | : | TAIWAN |
| Sample Receiving Date | : | 2006/10/5 |
| Testing Period | : | 2006/10/5 TO 2006/10/16 |

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


Daniel Yeh, M.R. / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.

Test Report

MINCHALI METAL INDUSTRY CO., LTD.
11, PEI YUAN ROAD, CHUNG LI CITY, TAIWAN, R. O. C.

No : CE/2006/A1255

Date : 20061016

Page : 2 of 5



Test Result(s)

PART NAME NO.1 : GOLDEN COLORED METAL SHEET

PASS

| Test Item (s): | Unit | Method | MDL | Result | Spec. |
|---|-------|---|-----|--------|-------|
| | | | | No.1 | |
| EN 71 PART 3 Heavy metal content | --- | As per EN 71 PART 3 : 1994 (A1 : 2000, AC:2000 and AC:2002) (EN 71 & BS 5665 are identical) | --- | --- | --- |
| Soluble Lead (Pb) | mg/kg | ICP-AES | 5 | < 5.0 | 90 |
| Soluble Antimony (Sb) | mg/kg | ICP-AES | 5 | < 5.0 | 60 |
| Soluble Arsenic (As) | mg/kg | ICP-AES | 2.5 | < 2.5 | 25 |
| Soluble Barium (Ba) | mg/kg | ICP-AES | 10 | 30.3 | 1000 |
| Soluble Cadmium (Cd) | mg/kg | ICP-AES | 5 | < 5.0 | 75 |
| Soluble Chromium (Cr) | mg/kg | ICP-AES | 5 | < 5.0 | 60 |
| Soluble Mercury (Hg) | mg/kg | ICP-AES | 5 | < 5.0 | 60 |
| Soluble Selenium (Se) | mg/kg | ICP-AES | 5 | < 5.0 | 500 |

| Test Item (s): | Unit | Method | MDL | Result | Spec. |
|--------------------|-------|---|-----|--------|-------|
| | | | | No.1 | |
| Cadmium (Cd) | mg/kg | With reference to BS EN 1122:2001, Method B for Cadmium Content. Analysis was performed by ICP-AES. | 2 | n.d. | - |
| Lead (Pb) | mg/kg | With reference to US EPA Method 3050B for Lead Content. Analysis was performed by ICP-AES. | 2 | 18.5 | - |
| Mercury (Hg) | mg/kg | With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES. | 2 | n.d. | - |
| Chromium VI (Cr+6) | mg/kg | With reference to US EPA Method 3060A & 7196A for Hexavalent Chromium. Analysis was performed by UV/Vis Spectrometry. | 2 | n.d. | - |

Test Report

MINCHALI METAL INDUSTRY CO., LTD.
11, PEI YUAN ROAD, CHUNG LI CITY, TAIWAN, R. O. C.

No : CE/2006/A1255

Date : 20061016

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| Test Item (s): | Unit | Method | MDL | Result No.1 | Spec. |
|---|-------|---|-----|-------------|-------|
| Sum of PBBs | mg/kg | With reference to US EPA 3540C for PBB/PBDE Content. Analysis was performed by GC/MS and screening via US EPA 3550C with HPLC/DAD/MS. | - | n.d. | - |
| Monobromobiphenyl | | | 5 | n.d. | - |
| Dibromobiphenyl | | | 5 | n.d. | - |
| Tribromobiphenyl | | | 5 | n.d. | - |
| Tetrabromobiphenyl | | | 5 | n.d. | - |
| Pentabromobiphenyl | | | 5 | n.d. | - |
| Hexabromobiphenyl | | | 5 | n.d. | - |
| Heptabromobiphenyl | | | 5 | n.d. | - |
| Octabromobiphenyl | | | 5 | n.d. | - |
| Nonabromobiphenyl | | | 5 | n.d. | - |
| Decabromobiphenyl | | | 5 | n.d. | - |
| Sum of PBDEs (Mono to Nona) (Note 4) | | | - | n.d. | - |
| Monobromobiphenyl ether | | | 5 | n.d. | - |
| Dibromobiphenyl ether | | | 5 | n.d. | - |
| Tribromobiphenyl ether | | | 5 | n.d. | - |
| Tetrabromobiphenyl ether | | | 5 | n.d. | - |
| Pentabromobiphenyl ether | | | 5 | n.d. | - |
| Hexabromobiphenyl ether | | | 5 | n.d. | - |
| Heptabromobiphenyl ether | | | 5 | n.d. | - |
| Octabromobiphenyl ether | | | 5 | n.d. | - |
| Nonabromobiphenyl ether | | | 5 | n.d. | - |
| Decabromobiphenyl ether | | | 5 | n.d. | - |
| Sum of PBDEs (Mono to Deca) | | | - | n.d. | - |

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 Conducted

6. " - " = Not Regulated

Test Report

MINCHALI METAL INDUSTRY CO., LTD.
11, PEI YUAN ROAD, CHUNG LI CITY, TAIWAN, R. O. C.

No : CE/2006/A1255

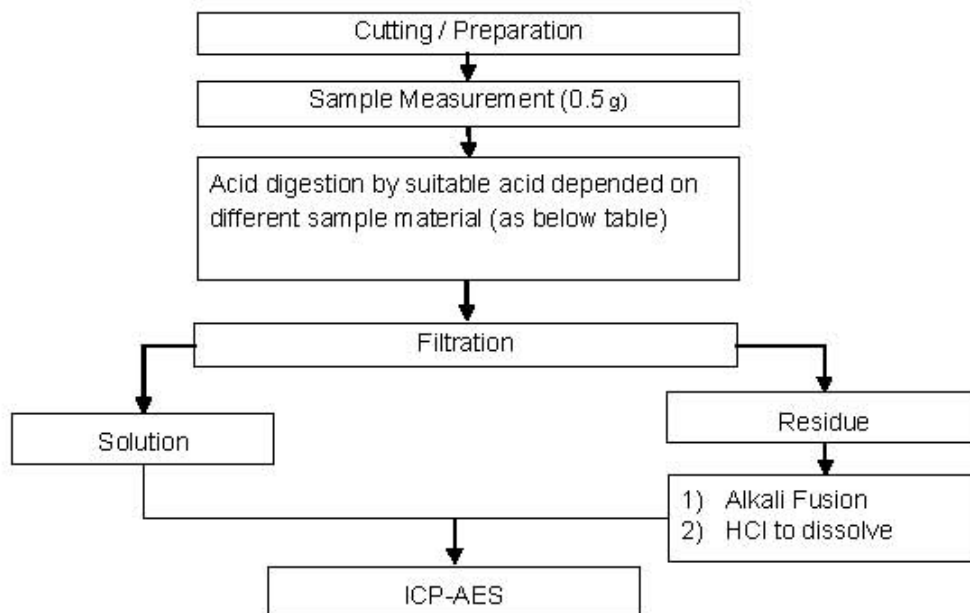
Date : 20061016

Page : 4 of 5



- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) Name of the person who made measurement: Anren Lee
- 3) Name of the person in charge of measurement: Daniel Yeh

Method 1: Flow Chart of Digestion for Cd - Pb analysis



| | |
|------------------------------------|---|
| Steel, copper, aluminum, solder | Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂ |
| Glass | HNO ₃ /HF |
| Gold, platinum, palladium, ceramic | Aqua regia |
| Silver | HNO ₃ |
| Plastic | H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl |
| Others | Any acid to total digestion |

Test Report

MINCHALI METAL INDUSTRY CO., LTD.
11, PEI YUAN ROAD, CHUNG LI CITY, TAIWAN, R. O. C.

No : CE/2006/A1255

Date : 20061016

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** End of Report **

Test Report

No.: GZ0703040006/CHEM

Date: MAR 28, 2007

Page 1 of 3

XINHAO SURFACE TREATMENT CO., LTD

A3 2 FLOOR, XINGANGLIAN INDUSTRIAL ZONE, HONGXING VILLAGE, SONGGANG TOWN, SHENZHEN CITY IN CHINA

The following sample(s) was/were submitted and identified on behalf of the applicant as Gold plating sample

SGS Ref No. : SZ10293568-5.3
Sample Receiving Date : MAR 22, 2007
Testing Period : MAR 22, 2007 TO MAR 28, 2007

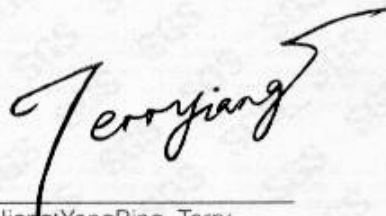
Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method : With reference to IEC 62321 Ed.1 111/54/CDV
Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products
(1) Determination of Cadmium by ICP.
(2) Determination of Lead by ICP.
(3) Determination of Mercury by ICP.
(4) Determination of Hexavalent Chromium by Colorimetric Method.

Test Results : Please refer to next page.

Conclusion : Based on the performed tests on submitted sample(s), the results **comply with** the RoHS
Directive 2002/95/EC and its subsequent amendments.

Signed for and on behalf of
SGS-CSTC Ltd.



Jiang YongPing, Terry
Sr. Engineer

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

| Test Item(s): | Method (refer to) | No.1 | MDL | RoHS Limit |
|---|-------------------|----------|------------|------------|
| Cadmium(Cd) | (1) | N.D. | 2 | 100 |
| Lead (Pb) | (2) | 34 | 2 | 1000 |
| Mercury (Hg) | (3) | N.D. | 2 | 1000 |
| Hexavalent Chromium (CrVI) by Spot test | (4) | Negative | See Note 4 | # |

Test Part Description:

No.1 Golden plated copper-colored metal sheet

Note : 1. mg/kg = ppm

2. N.D. = Not Detected (< MDL)

3. MDL = Method Detection Limit

4. Spot-test:

Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;

(The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed.)

Boiling-water-extraction:

Negative = Absence of CrVI coating

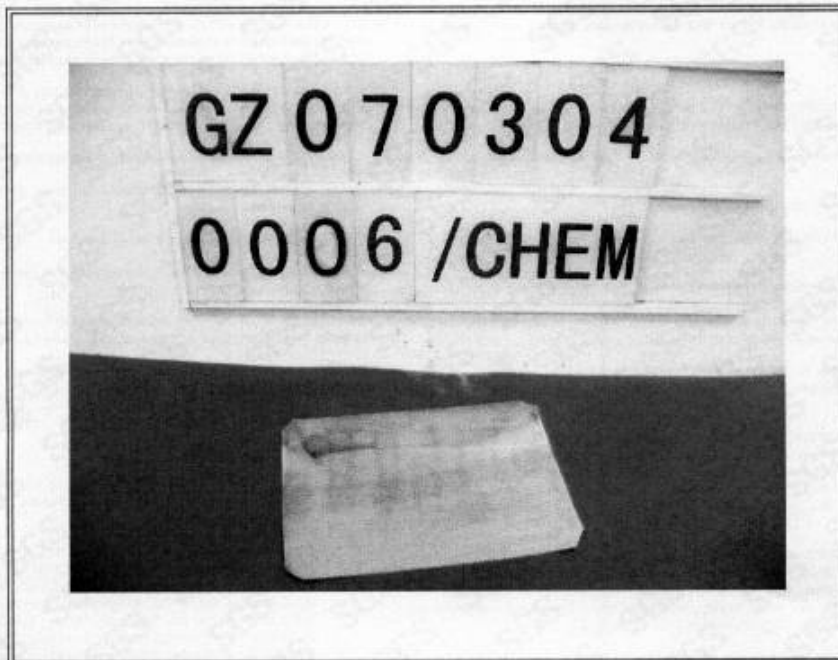
Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.

5. # = Positive indicates the presence of CrVI on the tested areas and result be regarded as conflict with RoHS requirement.

Negative indicates the absence of CrVI on the tested areas and result be regarded as no conflict with RoHS requirement.

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Sample photo :



SGS authenticate the photo on original report only

*** End of Report ***

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Test Report

No.: GZ0703040008/CHEM

Date: MAR 28, 2007

Page 1 of 3

XINHAO SURFACE TREATMENT CO., LTD

A3 2 FLOOR, XINGANGLIAN INDUSTRIAL ZONE, HONGXING VILLAGE, SONGGANG TOWN, SHENZHEN CITY IN CHINA

The following sample(s) was/were submitted and identified on behalf of the applicant as Ni plating sample

SGS Ref No. : SZ10293568-5.5
Sample Receiving Date : MAR 22, 2007
Testing Period : MAR 22, 2007 TO MAR 28, 2007

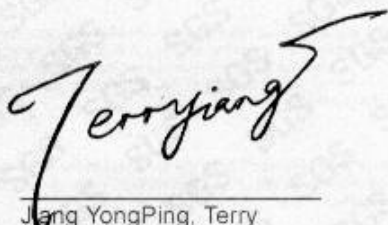
Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method : With reference to IEC 62321 Ed.1 111/54/CDV
Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products
(1) Determination of Cadmium by ICP.
(2) Determination of Lead by ICP.
(3) Determination of Mercury by ICP.
(4) Determination of Hexavalent Chromium by Colorimetric Method.

Test Results : Please refer to next page.

Conclusion : Based on the performed tests on submitted sample(s), the results **comply with the RoHS**
Directive 2002/95/EC and its subsequent amendments.

Signed for and on behalf of
SGS-CSTC Ltd.



Jiang YongPing, Terry
Sr. Engineer

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

| Test Item(s): | Method (refer to) | No. 1 | MDL | RoHS Limit |
|---|-------------------|----------|------------|------------|
| Cadmium (Cd) | (1) | N.D. | 2 | 100 |
| Lead (Pb) | (2) | 34 | 2 | 1000 |
| Mercury (Hg) | (3) | N.D. | 2 | 1000 |
| Hexavalent Chromium (CrVI) by Spot test | (4) | Negative | See Note 4 | # |

Test Part Description:

No. 1 Silver-gray plated copper-colored metal sheet

Note : 1. mg/kg = ppm

2. N.D. = Not Detected (< MDL)

3. MDL = Method Detection Limit

4. Spot-test:

Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;

(The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed.)

Boiling-water-extraction:

Negative = Absence of CrVI coating

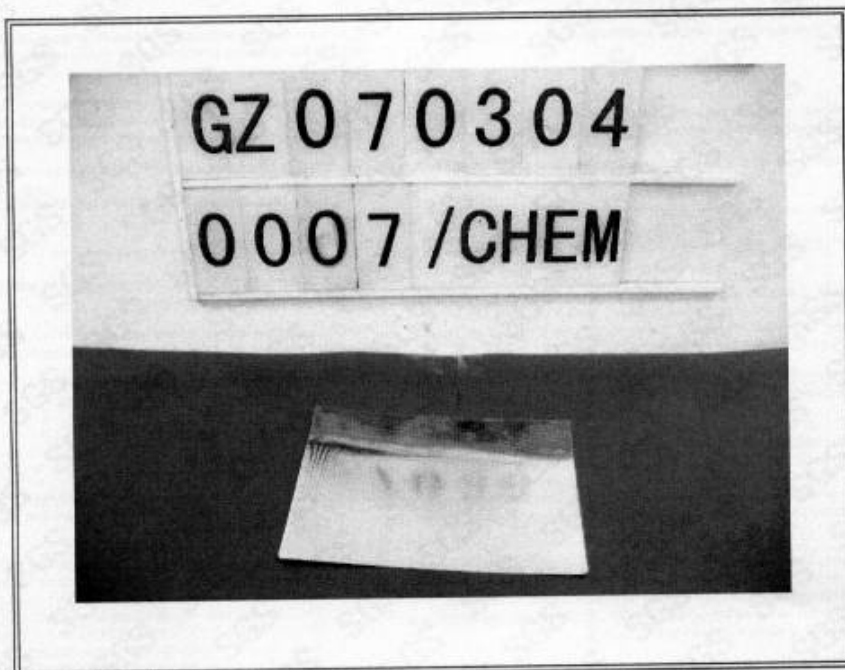
Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.

5. # = Positive indicates the presence of CrVI on the tested areas and result be regarded as conflict with RoHS requirement.

Negative indicates the absence of CrVI on the tested areas and result be regarded as no conflict with RoHS requirement.

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Sample photo :



SGS authenticate the photo on original report only

*** End of Report ***

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