

RAPPROVAL SHEET

承 認 書

Customer

客戶名稱:

KUK JAE TELE PARTS CO., LTD.

Description:

產品描述: D-SUB Socket High Density Right Angle Type

Part No.:

客戶編號:

Part No.:

繼德編號:

5510-XXS-XX-XX-F1

Date 日期:

MAY-02-2008

Rev. 版次:

A

| 經辦(Evaluted) | 審核(Checked) | 核準(Approval) | 客戶承認(Approval) |
|--------------|-------------|--------------|----------------|
| Yang xia | Jeremy Liu | Mike Wu | |



UL:Recognized NO. E 144392



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Neltron Industrial Co., Ltd.

Bill of Approval Sheet

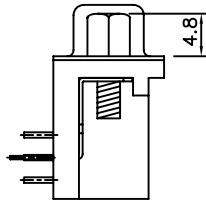
www.DataSheet4U.com Product Description: D-SUB Socket High Density Right Angle Type

Product Part NO.: 5510-XXS-XX-XX-F1

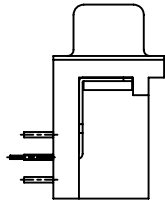
ate: MAY-02-2008

| Index | Item |
|-------|------------------------|
| 1 | Cover |
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| 3 | Customer drawing |
| 4~6 | Product specification |
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| 13 | Terminal |
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| 17 | Shell Material |
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| 21~22 | Plating |
| 23~31 | Plating SGS |
| 32~35 | UL Card |

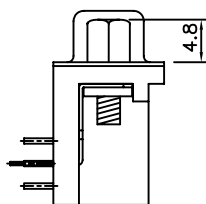
5510-XXS-01-XX-F1



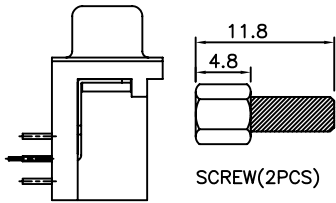
5510-XXS-02-XX-f1



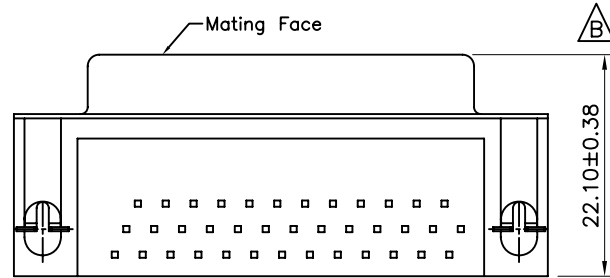
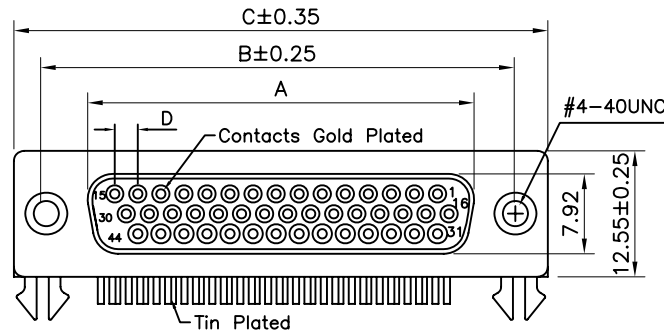
5510-XXS-02A-XX-F1



5510-XXS-02B-XX-F1



SCREW(2PCS)



| Pos | A | B | C | D | E |
|-----|-------|-------|-------|------|------|
| 15 | 16.33 | 24.99 | 30.81 | 2.29 | 0.25 |
| 26 | 24.66 | 33.32 | 39.14 | 2.29 | 0.51 |
| 44 | 38.38 | 47.04 | 53.04 | 2.29 | 0.51 |
| 62 | 54.84 | 63.50 | 69.32 | 2.41 | 0.58 |

Specifications

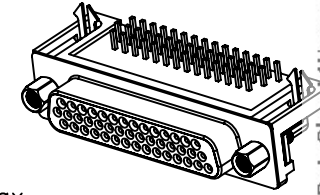
Current Rating:3.0A AC/DC
 Voltage Rating:250V AC/DC
 Contact Resistance:30m ohm. max.
 Insulation Resistance: 5,000M ohm. min.
 Withstanding Voltage:1,000V AC For One Minute
 Operating Temperature Range:-40°C ~ +85°C

Materials and Finish
 Insulator:High Temp. Plastic (PBT UL 94V-0)
 Contact:Phosphor Bronze Nickel Undercoated
 ,Selective Gold plated
 Shell:Metal Iron With Tin Plated

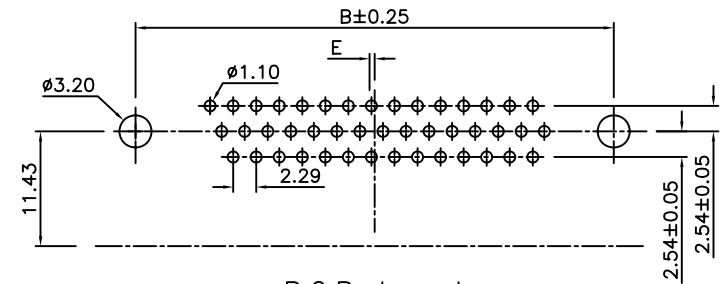
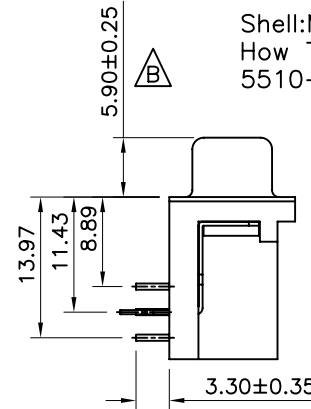
How To Order

5510-XXS-XX-XX-F1

- Lead Free
- 01:Full Gold plated
- 03:Selective Gold Plated
- 01:Board Lock/Hex Screw
- 02:Rivet W/Board Lock
- 02A:Rivet W/Board Lock/Hex Screw
- 02B:Rivet W/Board Lock/Attached Hex Screw
- S:Socket
- No.Of Positions



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P.C.B. Layout

RoHS Compliant

| | | | | |
|-----|-------------|--------------|----------|--|
| E | | | | |
| D | | | | |
| C | | | | |
| B | 14-Mar-2007 | ECN-CN070310 | Mary | |
| A | 31-Aug-2005 | (PC0052) | Cel King | |
| REV | DATE | FILE | BY | |

DRAWN:
Cel King

CHECKED:
Jeremy Liu

APPROVAL:
Mike Wu

GENERAL TOLERANCE:
.X=±0.2
.XX=±0.15

UNIT: mm

SCALE:

SHEET: 1 / 1

PROJECTION:



繼德工業股份有限公司

Neltron Industrial Co., Ltd.

DESCRIPTION: D-SUB Socket High Density Right Angle Type

PART NO: 5510-XXS-XX-XX-F1

SIZE
A4

PRODUCT SPECIFICATION

1.Scope

This specification covers D-SUB Socket High Density Right Angle Type

2.Product name and part number

| Product Name | Part Number |
|--|-------------------|
| D-SUB Socket High Density Right Angle Type | 5510-XXS-XX-XX-F1 |

3.Material/Finish

| Name | Material | Finish | Color |
|----------|-----------------|-----------------------|-------|
| Plastic | PBT (UL94V-0) | | |
| Terminal | Phosphor Bronze | Selective Gold Plated | |
| Shell | Metal Iron | Tin Plated | |

*Refer to the drawing.

4.Rating

| Item | Standard | |
|---------------------------|-------------|-------|
| Rated Voltage (MAX.) | 250 V | AC/DC |
| Rated Current (MAX.) | 3.0 A | |
| Ambient Temperature Range | -40°C~+85°C | |

*1: Including terminal temperature rise.

5. Performance

5-1.Electrical Performance

| Item | | Test Condition | Requirement |
|-------|-----------------------|---|--------------|
| 5-1-1 | Contact Resistance | Mate connectors D-SUB Socket High Density Right Angle Type and measure by dry circuit, 20mVMAX.10mA. (JIS C5402 5.4) | 30mΩ MAX |
| 5-1-2 | Insulation Resistance | Mate connectors D-SUB Socket High Density Right Angle Type and apply 1000V DC between adjacent terminal or ground. (JIS C5402 5.2/MIL-STD-202 Method 302) | 5000MΩ MIN |
| 5-1-3 | Dielectric Strength | Mate connectors D-SUB Socket High Density Right Angle Type and apply 1000V AC (rms) for 1 minute between adjacent terminal or ground. (JIS C5402 5.1/MIL-STD-202 Method 301) | No Breakdown |

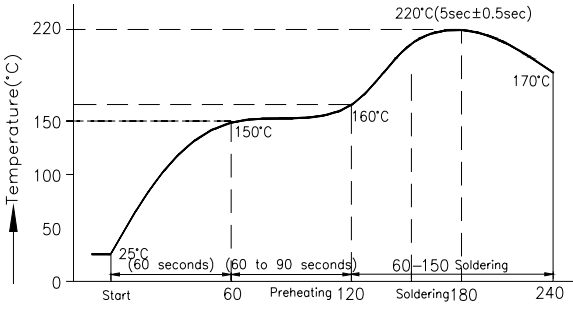
5-2 Mechanical Performance

| Item | | Test Condition | | Requirement |
|-------|--------------------------|--|-----------------|--------------|
| 5-2-1 | Insertion and Withdrawal | Insert and withdraw connectors at the speed rate of 25±3mm/minute. | Insertion Force | Kgf/Pin(Max) |

| | Force | Withdrawal Force | Kgf/Pin(Min) |
|-------|--------------------------|--|--------------|
| 5-2-2 | Terminal Retention Force | Apply axial pull out force at the speed rate of 25±3mm per minute. | kgf MIN |

5-3. Environmental Performance and Others

| Item | Test Condition | | Requirement | |
|--------|-----------------------------------|---|-----------------------|-----------------|
| 5-3-1 | Repeated Insertion and Withdrawal | When mated up to 30 cycles repeatedly by the rate of 10 cycles per minute. | Contact Resistance | 30 mΩ MAX |
| 5-3-2 | Temperature Rise | Carrying rated current load. (UL 498) | Temperature rise | 20 °C MAX |
| 5-3-3 | Vibration | Amplitude:1.5mm P-P Sweep time:10-55-10 Hz In 1 minute Duration: 2 hours in each of X.Y.Z axes (MIL-STD-202 Method 201) | Appearance | No Damage |
| | | | Contact Resistance | 30 mΩ MAX |
| | | | Discontinuity | 1μsec. MAX |
| 5-3-4 | Shock | 490m/S ² (50G),3 strokes in each X, Y, Z axes. (JIS C0041/MIL-STD-202 Method 213) | Appearance | No Damage |
| | | | Contact Resistance | 30 mΩ MAX |
| | | | Discontinuity | 1μsec. MAX. |
| 5-3-5 | Heat Resistance | 85±2°C 48hours (JIS C0021/MIL-STD-202 Method 108) | Appearance | No Damage |
| | | | Contact Resistance | 30mΩ MAX |
| 5-3-6 | Cold Resistance | -40±3°C 48 hours (JIS C0020) | Appearance | No Damage |
| | | | Contact Resistance | 20 mΩ MAX |
| 5-3-7 | Humidity | Temperature: 60±2°C Relative Humidity:90~95% Duration: 96hours (JIS C0022/MIL-STD-202 Method 103) | Appearance | No Damage |
| | | | Contact Resistance | 30 mΩ MAX |
| | | | Dielectric Strength | Must meet 4-1-3 |
| | | | Insulation Resistance | 5000MΩ MIN |
| 5-3-8 | Temperature Cycling | 5 cycles of: a)-55°C 30 minutes b)+105°C 30 minutes (JIS C0025) | Appearance | No Damage |
| | | | Contact Resistance | 30 mΩ MAX |
| 5-3-9 | Salt Spray | 12±4 hours exposure to a salt spray from the 5±1% solution at 35±2°C (JIS C0023/MIL-STD-202 Method 101) | Appearance | No Damage |
| | | | Contact Resistance | 20mΩ MAX |
| 5-3-10 | SO ₂ Gas | 24 hours exposure to 50±5ppm. SO ₂ gas at 40±2°C | Appearance | No Damage |
| | | | Contact Resistance | 30 mΩ MAX |
| 5-3-11 | NH ₃ Gas | 40 minutes exposure to NH ₃ gas evaporating from 28% Ammonia solution | Appearance | No Damage |
| | | | Contact Resistance | 30mΩ MAX |

| | | | | |
|--------|---|--|--|---|
| 5-3-12 | Solder-ability | Solder Time:5±0.5 sec. Solder Temperature:220±5°C | Solder Wetting | 95% of immersed area must show no voids, pin holes |
| 5-3-13 | Resistance To Soldering Heat | Soldering Time:5±0.5 sec. Solder Temperature:220±5°C | Appearance | No Damage |
| 5-3-14 | Soldering Profile 5-3-14-1 Manual soldering 5-3-14-2Wave Soldering | Solder temp: 400±5°C Time: 5± 0.5 sec Soldering temp : 220 ± 5°C Soldering time : 5 ± 0.5 s Preheating : 150 ± 10°C for 1 to 2 min.  <p style="text-align: center;">Time Max-6minute PBT Recommended Temperature Profile</p> | Supplier to provide measured data into the Table 1. | |

SHINITE™ PBT

| 性質 | METHOD | UNIT | D201 | D201G15 | D201G30 | D202 |
|-----------------------|--------|--------------------|-----------|-----------|-----------|-----------|
| 比重 | D792 | --- | 1.31 | 1.39 | 1.52 | 1.40 |
| 含水率 | D570 | % | 0.09 | 0.07 | 0.07 | 0.08 |
| 模收縮 | | | | | | |
| 流動方向 | D955 | % | 0.8 - 2.0 | 0.3 - 0.5 | 0.2 - 0.4 | 0.6 - 1.9 |
| 垂直方向 | | | 0.8 - 2.0 | 0.5 - 0.9 | 0.5 - 0.9 | 0.6 - 1.9 |
| 抗張強度 | D638 | kg/cm ² | 550 | 1000 | 1250 | 600 |
| 伸長率 | D638 | % | 40 | 4 | 4 | 6 |
| 彎曲強度 | D790 | kg/cm ² | 850 | 1600 | 2100 | 900 |
| 彎曲模數 | D790 | kg/cm ² | 25000 | 52000 | 90000 | 26000 |
| 衝擊強度缺口 1/8" (23°C) | D256 | kg x cm/cm | 4 | 8 | 10 | 4 |
| 洛式硬度 | D785 | R | 118 | 120 | 120 | 118 |
| 熱變形溫度 | D648 | °C | 65 | 205 | 210 | 70 |
| 耐燃性 | UL-94 | --- | HB | HB | HB | V0 |
| 介電強度 | D149 | KV/MM | 15 | 15 | 20 | 15 |
| 介電常數 | D150 | --- | 3 | 3 | 4 | 3 |
| 體積電阻 | D257 | Ω-CM | 1.00E+16 | 1.00E+16 | 1.00E+16 | 1.00E+16 |

| 性質 | METHOD | UNIT | D202G15 | D202G20 | D202G30 | E202G15 | E202G30 |
|-----------------------|--------|--------------------|-----------|-----------|-----------|-----------|-----------|
| 比重 | D792 | --- | 1.49 | 1.53 | 1.62 | 1.50 | 1.61 |
| 含水率 | D570 | % | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 |
| 模收縮 | | | | | | | |
| 流動方向 | D955 | % | 0.3 - 0.5 | 0.3 - 0.5 | 0.2 - 0.4 | 0.3 - 0.5 | 0.2 - 0.4 |
| 垂直方向 | | | 0.5 - 0.9 | 0.5 - 0.9 | 0.5 - 0.9 | 0.5 - 0.9 | 0.5 - 0.9 |
| 抗張強度 | D638 | kg/cm ² | 950 | 1100 | 1300 | 920 | 1300 |
| 伸長率 | D638 | % | 4 | 4 | 4 | 4 | 3 |
| 彎曲強度 | D790 | kg/cm ² | 1600 | 1750 | 1950 | 1470 | 2000 |
| 彎曲模數 | D790 | kg/cm ² | 60000 | 70000 | 95000 | 58000 | 93000 |
| 衝擊強度缺口 1/8" (23°C) | D256 | kg x cm/cm | 6 | 7.5 | 9 | 5.5 | 8.5 |
| 洛式硬度 | D785 | R | 120 | 120 | 120 | 120 | 120 |
| 熱變形溫度 | D648 | °C | 200 | 205 | 210 | 205 | 210 |
| 耐燃性 | UL-94 | --- | V0 | V0 | V0 | V0 | V0 |
| 介電強度 | D149 | KV/MM | 20 | 20 | 20 | 20 | 20 |
| 介電常數 | D150 | --- | 3 | 4 | 4 | 3 | 4 |
| 體積電阻 | D257 | Ω-CM | 1.00E+16 | 1.00E+16 | 1.00E+16 | 1.00E+16 | 1.00E+16 |

| | |
|------------|----------------------|
| 一般級 | D201 |
| 玻璃纖維強化級 | D201G15 D201G30 |
| 防火級 | D202 |
| 玻纖強化防火級 | D202G15-G30 |
| 玻璃纖維強化級E系列 | E202G15-G30 |

C201, D201G15, D201G30, D202, D202G5-30 UL File No. E107536 (M)

1. 以上數據僅供參考，實際數據以產品檢驗報告為準。
2. 如有任何特別需求，請洽營業人員，謝謝。

Test Report

No. : CE/2007/B4310A

Date : 2007/12/12

Page : 1 of 5

SHINKONG SYNTHETIC FIBERS CORPORATION

8F., NO. 123, SEC. 2, NANKING E. RD., TAIPEI, TAIWAN, R. O. C.

TEL : +886-3-4932131 Ext. 1732 FAX : +886-3-4915763



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

Sample Description : THERMOPLASTIC POLYESTER RESIN
Style/Item No. : SHINITE[®] PBT E202G15BK
Manufacturer/Vendor : SHINKONG SYNTHETIC FIBERS CORPORATION
Country of Origin : TAIWAN
Sample Receiving Date : 2007/11/16
Testing Period : 2007/11/16 TO 2007/11/23

=====
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-AES.
(2) Determination of Lead by ICP-AES.
(3) Determination of Mercury by ICP-AES.
(4) Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry.
(5) Determination of PBB and PBDE by GC/MS.
Test Result(s) : Please refer to next page(s).

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

Test Report

No.: CE/2007/B4310A Date: 2007/12/12

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

| Test Item (s): | Method (Refer to) | Result | MDL |
|---|-------------------|--------|-----|
| | | No.1 | |
| Cadmium (Cd) | (1) | n.d. | 2 |
| Lead (Pb) | (2) | 14 | 2 |
| Mercury (Hg) | (3) | n.d. | 2 |
| Hexavalent Chromium Cr(VI) by alkaline extraction | (4) | n.d. | 2 |
| Sum of PBBs | (5) | 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) | | 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 : BLACK PLASTIC PELLETS

- Note :
1. mg/kg = ppm
 2. n.d. = Not Detected
 3. MDL = Method Detection Limit
 4. According to 2005/717/EC DecaBDE is exempt.
 5. "-" = Not Regulated

Test Report

No.: CE/2007/B4310A Date: 2007/12/12

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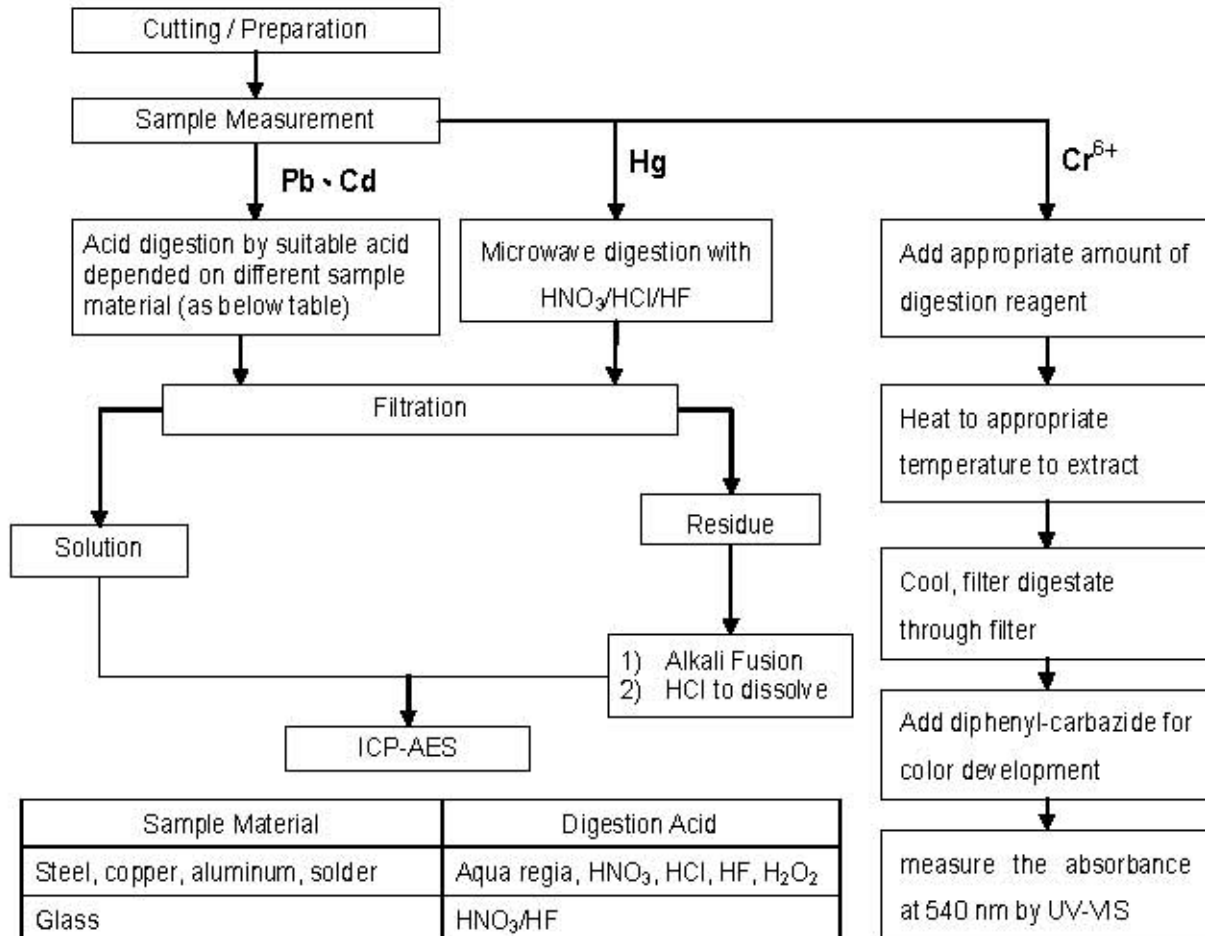
TEL: +886-3-4932131 Ext. 1732 FAX: +886-3-4915763



- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
(Cr⁶⁺ test method excluded)

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- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Chenyu Kung



| Sample Material | Digestion Acid |
|------------------------------------|---|
| 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 |

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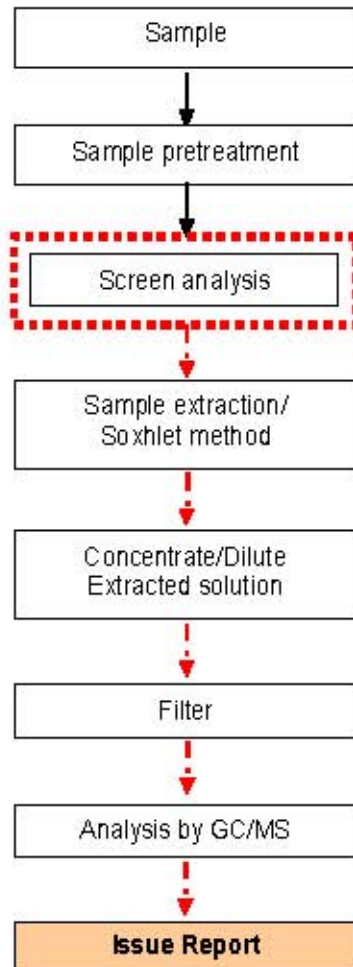


PBB/PBDE analytical FLOW CHART

First testing process →

Optional screen process - - - - -

Confirmation process - · - · - ·



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Test Report

No. : CE/2007/B4310A Date : 2007/12/12

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** End of Report **



测试报告

编号 : GZ0709142822/CHEM

日期 : 2007 年 10 月 8 日 页码 1 of 3

东莞市金乐金属材料有限公司
东莞市虎门镇镇口第二工业区 11 栋之二

以下测试之样品是由申请者所提供及确认: 高精度磷铜 C5191
客户参考信息: 高精度磷铜 C5191

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SGS 参考编号 : GC070906038

收板日期 : 2007 年 9 月 24 日

信息确认日期 : 2007 年 9 月 26 日

测试日期 : 2007 年 9 月 24 日至 2007 年 10 月 8 日

测试要求 : 按照 RoHS 指令 2002/95/EC 及其修订文件要求进行测试。

测试方法 : 参照 IEC 62321 Ed.1 111/54/CDV 电子电器产品中限用物质含量的测定程序

- (1) 用 ICP 测定镉的含量
- (2) 用 ICP 测定铅的含量
- (3) 用 ICP 测定汞的含量
- (4) 用比色法测定六价格的含量

测试结果 : 请参见下一页

测试结论 : 基于所送样品进行的测试, 测试结果与欧盟 RoHS 指令 2002/95/EC 以及后续修正指令的要求相符。

Signed for and on behalf of
SGS-CSTC Ltd.

Huang Fang, Sunny
Sr. Engineer

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测试报告

编号：GZ0709142822/CHEM

日期：2007年10月8日 页码 2 of 3

测试结果 (单位：毫克/千克):

| 测试项目 | 参考方法 | No.1 | MDL | RoHS 限值 |
|------------------|------|----------|------------|------------|
| 镉 (Cd) | (1) | N.D. | 2 | 100 |
| 铅 (Pb) | (2) | 18 | 2 | 1000 |
| 汞 (Hg) | (3) | N.D. | 2 | 1000 |
| 沸水萃取法测六价铬(Cr VI) | (4) | Negative | 参见 注释 4 | # |

测试部件描述:

No.1 铜色金属片

注释：1. 毫克/千克 = ppm

2. N.D. = 未检出 (< MDL)

3. MDL = 方法检测限

4. 点测试:

Negative = 未检测到六价铬, Positive = 检测到六价铬;

(如果点测试结果不能确认, 测试样品将进一步由沸水萃取法进行测试)。

沸水萃取法:

Negative = 未检测到六价铬

Positive = 检测到六价铬: 每 50cm² 表面积的被测试样品的沸水萃取液中六价铬的浓度等于或大于 0.02mg/kg。

5. # Positive = 阳性, 表示结果与 RoHS 要求相抵触

Negative = 阴性, 表示结果与 RoHS 要求不相抵触

6. 本测试报告内容是参照报告编号为 GZ0709142821/CHEM 的中文译本, 中英文版本如有歧异, 概以英文版为准。

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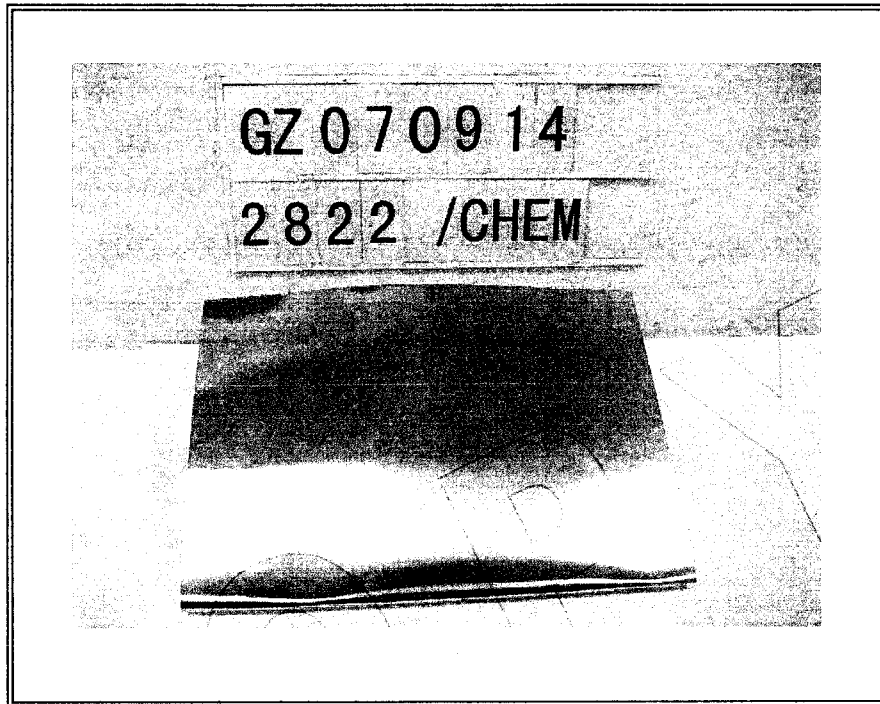


测试报告

编号: GZ0709142822/CHEM

日期: 2007年10月8日 页码 3 of 3

样品照片:



此图片仅限于随 SGS 正本报告使用

*** 报告完 ***

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198 Kazhu Road, SCIENTECH Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663
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t (86-20) 82155555

f (86-20) 82075125
f (86-20) 82075125

1582902
www.DataSheet4U.com
www.sgs.com
e sgs.china@sgs.com

試 験 成 績 書

INSPECTION CERTIFICATE

日 鉦 金 属 加 工 株 式 会 社 倉 見 工 場
KURAMI WORKS, NIKKO METAL MANUFACTURING CO., LTD.

需要家 同朋中国

CUSTOMER

扱 先 同朋香港 有限公司

MESSRS.

製品名 C5191R-H (190-210)

PRODUCTS

寸 法 0.25 X 305 X L

SIZE

規 格

SPECIFICATION

化 学 成 分

CHEMICAL COMPOSITIONS

発 行 日 2005年03月28日

DATE OF ISSUE

納 品 書 番 号 57166

DELIVERY SHEET NO.

注 文 番 号 NK5-0303

CONTRACT NO.

オ ー ダ ー 番 号 03

ORDER NO.

0002

品 質 保 証 課 長

MANAGER OF QUALITY

ASSURANCE SECTION

Hiromichi Watanabe

| 規 格 SPECIFICATION | Zn % | Sn % | P % | Fe % | Pb % | Cu+Sn+P % | | | | | | | |
|----------------------|---------|---------|--------|---------|---------|--------------|--|--|--|--|--|--|--|
| 製造番号 MIN | | 5.5 | 0.05 | | | 99.7 | | | | | | | |
| LOT NO. MAX | 0.20 | 7.0 | 0.26 | 0.10 | 0.05 | | | | | | | | |
| 62512 | 0.01 | 5.99 | 0.12 | 0.003 | 0.002 | 99.96 | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| 質 量 MASS (KG) |
|---------------------|
| 5,136.00 |
| |
| |
| |

機 械 的 お よ び 物 理 的 性 質

MECHANICAL AND PHYSICAL PROPERTIES

| 規 格 SPECIFICATION | 引 張 強 さ TENSILE STRENGTH N/mm ² | 伸 び ELONGATION % | 硬 さ HARDNESS HV | | | | | | | | | | | 寸 法 検 査 DIMENSIONAL INSPECTIONS | GOOD |
|----------------------|--|------------------------|-----------------------|--|--|--|--|--|--|--|--|--|--|------------------------------------|------|
| 製造番号 MIN | 590 | 8.0 | 190 | | | | | | | | | | | 外 観 検 査 SURFACE INSPECTIONS | GOOD |
| LOT NO. MAX | 685 | | 210 | | | | | | | | | | | 備 考 REMARKS. | |
| 62512 | 615 | 17.6 | 203.0 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

この製品は品質管理計画に基づき製造され、検査・試験を行ない、規格に合格したことを証明する。

WE HEREBY CERTIFY THAT THE PRODUCTS DESCRIBED HEREIN HAVE BEEN MANUFACTURED, INSPECTED AND TESTED IN ACCORDANCE WITH THE SPECIFICATION AND Q.C. PROGRAM.

posco

Mill Test Certificate/검사증명서

Certificate No./증명서번호 :050929-KCSE-001-001
Date of Issue/발행일자:Sep., 30, 2005

Order No./계약번호:0002260731

PO No./주문번호:2260731
(65711)

Supplier/주문자:SSANGYONG CORPORATION

Commodity/품명:CR COIL

Customer/고객사:GOLDBASE STEEL CO., LTD

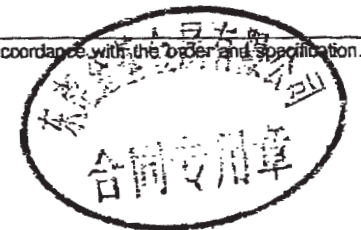
Spec & Type/규격:JIS G3141 SPCC-SD

www.DataSheet4U.com

| Size/치수 | Product No. 제품번호 | Quantity 수량 | Weight 중량 (kg) | Heat No. 재강번호 | POSITION | Tensile/인장시험 | | | Hardness 경도 HRB | Base Metal Base Bend | DIVISION | Chemical Composition/화합성분 (%) | | | | | |
|-------------------------|---------------------|----------------|-------------------|------------------|----------|--------------|-------------|-----------|-----------------------|-------------------------|----------|-------------------------------|----|----|-----|----|--|
| | | | | | | YP (MPa) | TS (%) | EL (%) | | | | C | Si | Mn | P | S | |
| 0.50x1245xC | CPW3809AA | 1 | 5,420 | SP33155 | T | 179 | 309 | 47 | 36.7 | Good | L | 24 | Tr | 54 | 108 | 96 | |
| 0.50x1245xC | CPW3809B | 1 | 8,330 | SP33155 | T | 179 | 309 | 47 | 36.7 | Good | L | 24 | Tr | 54 | 108 | 96 | |
| 0.50x1245xC | CPW3809C | 1 | 7,820 | SP33155 | T | 179 | 309 | 47 | 36.7 | Good | L | 24 | Tr | 54 | 108 | 96 | |
| 0.50x1245xC | CPW5413A | 1 | 7,960 | SP33155 | T | 170 | 300 | 47 | 37.4 | Good | L | 24 | Tr | 54 | 108 | 96 | |
| 0.50x1245xC | CPW5413B | 1 | 8,010 | SP33155 | T | 170 | 300 | 47 | 37.4 | Good | L | 24 | Tr | 54 | 108 | 96 | |
| 0.50x1245xC | CPW5413C | 1 | 7,520 | SP33155 | T | 170 | 300 | 47 | 37.4 | Good | L | 24 | Tr | 54 | 108 | 96 | |
| *** Sub Total (010) *** | | | 6 | | | | 45,060 (kg) | | | < No Weld > | | | | | | | |
| 0.60x1219xC | CRW2807A | 1 | 8,680 | SP33155 | T | 164 | 299 | 48 | 34.5 | Good | L | 24 | Tr | 54 | 108 | 96 | |
| 0.60x1219xC | CRW2807B | 1 | 8,680 | SP33155 | T | 164 | 299 | 48 | 34.5 | Good | L | 24 | Tr | 54 | 108 | 96 | |
| 0.60x1219xC | CRW2807CA | 1 | 8,370 | SP33155 | T | 164 | 299 | 48 | 34.5 | Good | L | 24 | Tr | 54 | 108 | 96 | |
| 0.60x1219xC | CRW2808A | 1 | 6,700 | SP33155 | T | 165 | 297 | 48 | 35.3 | Good | L | 24 | Tr | 54 | 108 | 96 | |
| 0.60x1219xC | CRW2808B | 1 | 6,520 | SP33155 | T | 165 | 297 | 48 | 35.3 | Good | L | 24 | Tr | 54 | 108 | 96 | |
| 0.60x1219xC | CRW2808C | 1 | 6,520 | SP33155 | T | 165 | 297 | 48 | 35.3 | Good | L | 24 | Tr | 54 | 108 | 96 | |
| 0.60x1219xC | CRW2808D | 1 | 6,380 | SP33155 | T | 165 | 297 | 48 | 35.3 | Good | L | 24 | Tr | 54 | 108 | 96 | |
| *** Sub Total (020) *** | | | 7 | | | | 51,850 (kg) | | | < No Weld > | | | | | | | |
| 0.70x1219xC | CRW2837A | 1 | 8,580 | SP33155 | T | 178 | 312 | 47 | 36.7 | Good | L | 24 | Tr | 54 | 108 | 96 | |
| 0.70x1219xC | CRW2837B | 1 | 8,580 | SP33155 | T | 178 | 312 | 47 | 36.7 | Good | L | 24 | Tr | 54 | 108 | 96 | |
| 0.70x1219xC | CRW2837C | 1 | 8,590 | SP33155 | T | 178 | 312 | 47 | 36.7 | Good | L | 24 | Tr | 54 | 108 | 96 | |
| *** Sub Total (030) *** | | | 3 | | | | 25,750 (kg) | | | < No Weld > | | | | | | | |

* Position - T : Top, M : Middle, B : Bottom
 * Tensile Test Direction : Longitudinal, Gauge Length : 50mm(Rectangular).
 * Division - L:Ladle Analysis * Tr(Trace)
 * Chemical Composition Unit: -2x1/100, -3x1/1000, -4x1/10000, -5x1/100000

We hereby certify that the material herein has been made in accordance with the order and specification.



* This Mill Test Certificate cannot be copied for any purpose.



Surveyor To:

Handwritten signature

CIXI ZHANGQI HENG FENG WU JIN FACTORY
NEAR OF NO.329 NATIONAL HIGHWAY ZHANGQI TOWN CIXI CITY ZHEJIANG PROVINCE
CHINA

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

hardware fitting

SGS Job No. : 10914687 - GZ
Client Reference Information : screw aquare Base stud
Date of Sample Received : 26 Jul 2007
Testing Period : 28 Jul 2007 - 01 Aug 2007

Test Requested : To determine the Cadmium, Lead, Mercury & Hexavalent Chromium content in the submitted sample.

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.
Determination of Lead by ICP.
Determination of Mercury by ICP.
- (2) Determination of Hexavalent Chromium by Colorimetric Method.

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

Signed for and on behalf of
SGS-CSTC Ltd.



Huang Fang, Sunny
Sr. Engineer

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GZCM1968396

Test Report

No. CANEC0001144001

Date: 22 Mar 2008

Page 2 of 3

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

| Test Item(s) | Method (Refer to) | No.1 | MDL |
|--|----------------------|----------|------------|
| Cadmium(Cd) | (1) | 14 | 2 |
| Lead (Pb) | (1) | 25978 | 2 |
| Mercury (Hg) | (1) | N.D. | 2 |
| Hexavalent Chromium (CrVI) by boiling water extraction | (2) | Negative | See Note 4 |

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. Results & photo(s) of this report refer to test report CANEC0700150200.

Test Part Description

No. 1 Silvery metal part

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地址: 中国·广州·经济技术开发区科学城科丰路199号 邮编: 510663

1 (86-20) 82186656
1 (86-20) 82186655

1 (86-20) 52075725
1 (86-20) 52075725

GZCM1968397

www.cn.sgs.com

Sample photo:



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*** End of Report ***

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MEAN TOP COAT = 1.06u"
 STD, DEVIATION = 0.176u"
 NO. OF MEAS. = 10

MEAN INT COAT = 54.321u"
 STD, DEVIATION = 3.454u"
 NO. OF MEAS. = 10

T meas = 10 s

LOCATE SPECIMEN
 TO MEASURE **PRESS " GO "**
 Xt1=0.009 Xn= 0.079

| THICKNESS MEASUREMENT | | |
|-----------------------|------------------|-----------|
| | Au | Ni |
| N= 1 | THICKNESS=1.08u" | = 52.59u" |
| N= 2 | THICKNESS=1.01u" | = 54.39u" |
| N= 3 | THICKNESS=1.05u" | = 53.54u" |
| N= 4 | THICKNESS=1.06u" | = 55.96u" |
| N= 5 | THICKNESS=1.04u" | = 53.12u" |

2006/10/13

MEAN TOP COAT = 50.321u"
 STD, DEVIATION = 3.454u"
 NO. OF MEAS. = 10

MEAN TOP COAT = 100.08u"
 STD, DEVIATION = 6.363u"
 NO. OF MEAS. = 10

T meas = 10 s

LOCATE SPECIMEN
 TO MEASURE **PRESS " GO "**
 Xt1= Xn=

| THICKNESS MEASUREMENT | | |
|-----------------------|--------------------|-----------|
| | Tin | Ni |
| N= 1 | THICKNESS=100.03u" | = 50.51u" |
| N= 2 | THICKNESS=100.07u" | = 50.10u" |
| N= 3 | THICKNESS=100.04u" | = 50.24u" |
| N= 4 | THICKNESS=100.05u" | = 50.37u" |
| N= 5 | THICKNESS=100.09u" | = 50.15u" |

2006/12/13



Test Report

No. CANEC0800111003

Date: 16 Jan 2008

Page 1 of 3

SHENZHEN HONGJUN HARDWARE CO., LTD.
NO.3,DALANG INDUSTRY AREA,HONGXING VILLAGE SONGGANG TOWN,BAO'AN
DISTRICT,SHENZHEN
CHINA

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

www.DataSheet4U.com
AU PLATING

SGS Job No. : 10787280 - SZ
SGS Internal Reference No. : 4.3
Date of Sample Received : 11 Jan 2008
Testing Period : 11 Jan 2008 - 16 Jan 2008

Test Requested : To determine the Cadmium, Lead, Mercury & Hexavalent Chromium content in the submitted sample.

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.
Determination of Lead by ICP.
Determination of Mercury by ICP.
(2) Determination of Hexavalent Chromium by Colorimetric Method.

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

Signed for and on behalf of
SGS-CSTC Ltd.

Huang Fang, Sunny
Sr. Engineer

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Test Report

No. CANEC0800111003

Date: 16 Jan 2008

Page 2 of 3

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

| Test Item(s) | Method (Refer to) | No.1 | MDL |
|--|----------------------|----------|------------|
| Cadmium(Cd) | (1) | N.D. | 2 |
| Lead (Pb) | (1) | 22 | 2 |
| Mercury (Hg) | (1) | N.D. | 2 |
| Hexavalent Chromium (CrVI) by boiling water extraction | (2) | Negative | See Note 4 |

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.

Test Part Description

No. 1 Golden/silvery plated metal

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Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***

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Test Report

No. CANEC0800111004

Date: 16 Jan 2008

Page 1 of 3

SHENZHEN HONGJUN HARDWARE CO., LTD.
NO.3,DALANG INDUSTRY AREA,HONGXING VILLAGE SONGGANG TOWN,BAO'AN
DISTRICT,SHENZHEN
CHINA

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

NI PLATING

SGS Job No. : 10787280 - SZ
SGS Internal Reference No. : 4.4
Date of Sample Received : 11 Jan 2008
Testing Period : 11 Jan 2008 - 16 Jan 2008

Test Requested : To determine the Cadmium, Lead, Mercury & Hexavalent Chromium content in the submitted sample.

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.
Determination of Lead by ICP.
Determination of Mercury by ICP.
(2) Determination of Hexavalent Chromium by Colorimetric Method.

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

Signed for and on behalf of
SGS-CSTC Ltd.

Huang Fang, Sunny
Sr. Engineer

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Test Report

No. CANEC0800111004

Date: 16 Jan 2008

Page 2 of 3

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

| Test Item(s) | Method (Refer to) | No.1 | MDL |
|--|----------------------|----------|------------|
| Cadmium(Cd) | (1) | N.D. | 2 |
| Lead (Pb) | (1) | 19 | 2 |
| Mercury (Hg) | (1) | N.D. | 2 |
| Hexavalent Chromium (CrVI) by boiling water extraction | (2) | Negative | See Note 4 |

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.

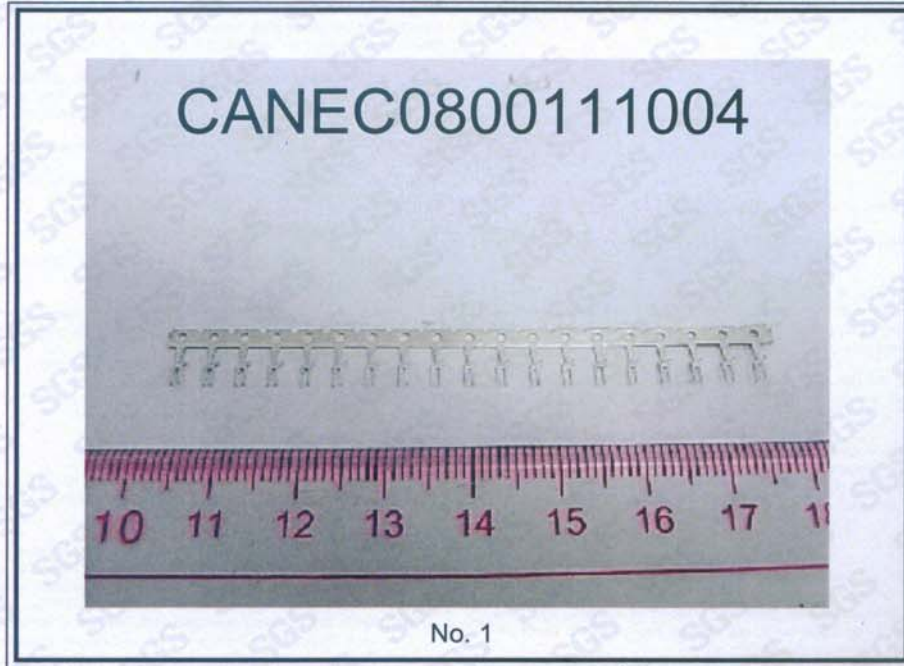
Test Part Description

No. 1 Silvery plated metal

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GZCM 19 125 46

Sample photo:



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Test Report

No. CANEC0800111001

Date: 16 Jan 2008

Page 1 of 3

SHENZHEN HONGJUN HARDWARE CO., LTD.
NO.3,DALANG INDUSTRY AREA,HONGXING VILLAGE SONGGANG TOWN,BAO'AN
DISTRICT,SHENZHEN
CHINA

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

MATTE SN PLATING

SGS Job No. : 10787280 - SZ
SGS Internal Reference No. : 4.1
Date of Sample Received : 11 Jan 2008
Testing Period : 11 Jan 2008 - 16 Jan 2008

Test Requested : To determine the Cadmium, Lead, Mercury & Hexavalent Chromium content in the submitted sample.

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.
Determination of Lead by ICP.
Determination of Mercury by ICP.
(2) Determination of Hexavalent Chromium by Colorimetric Method.

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

Signed for and on behalf of
SGS-CSTC Ltd.

Huang Fang, Sunny
Sr. Engineer

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Test Report

No. CANEC0800111001

Date: 16 Jan 2008

Page 2 of 3

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

| Test Item(s) | Method (Refer to) | No.1 | MDL |
|--|----------------------|----------|------------|
| Cadmium(Cd) | (1) | N.D. | 2 |
| Lead (Pb) | (1) | 18 | 2 |
| Mercury (Hg) | (1) | N.D. | 2 |
| Hexavalent Chromium (CrVI) by boiling water extraction | (2) | Negative | See Note 4 |

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.

Test Part Description

No. 1 Silvery plated metal

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Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***

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ECBT2.E144392

Connectors for Use in Data, Signal, Control and Power Applications - Component

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Connectors for Use in Data, Signal, Control and Power Applications - Component

[See General Information for Connectors for Use in Data, Signal, Control and Power Applications - Component](#)
NELTRON INDUSTRIAL CO LTD

E144392

2ND FL
184 CHENG-TEH RD, SEC 4
SHIH-LIN, TAIPEI 111 TAIWAN

Wire to board connectors, Cat. Nos. 1310, 1311, 5289H followed by -02 thru -15; Cat. Nos. 8982H, 8980H, 8981H followed by -04; Cat. Nos. 2317RB, 2317RJ, 2317SB, 2317SJ, 2318HB, 2318HJ, 2417RJ, 2417SJ, 2418HJ followed by -02 thru -15; Cat. No. 2226A followed by -01 thru -40; Cat. No. 2226B followed by -02 thru -80; Cat. No. 2221 followed by -06, -12; Cat. No. 2222 followed by -06; Cat. No. 2220 followed by -02 thru -16; Cat. Nos. 2217R, 2217S, 2219R, 2219S followed by -02 thru -15; Cat. No. 2218H followed by -01 thru -15; Cat. No. 2026A followed by -01 thru -40; Cat. No. 2026B followed by -02 thru -80; Cat. No. 4400 followed by -44; Cat. No. 4401 followed by -10, -14, -16, -20, -24, -26, -30, -34, -40, -50, -60, -64; Cat. No. 4402 followed by -10, -14, -16, -20, -26, -34, -40, -44, -50, -60, -64; Cat. No. 4403 followed by -10, -14, -16, -20, -26, -30, -34, -40, -50, -60; Cat. No. 4404 followed by -14, -16, -18, -20; Cat. No. 4405 followed by -10, -14, -16, -20, -26; Cat. No. 4406 followed by -10, -14, -16, -20, -24, -26, -30, -34, -40, -50, -60, -64; Cat. No. 4501 followed by -20, -26, -32, -34, -40, -50, -52, -60, -68, -80, -100; Cat. No. 1200 followed by -03 thru -09; Cat. No. 1005 followed by -50, -100.

P.C.B connectors, Cat. No. 2162 followed by -16, -18, -20, -24; Cat. No. 2227 followed by -08, -14, -16, -18, -20, -24, -28, -40; Cat. No. 6605 followed by -72; Cat. No. 6602 followed by -30, -60; Cat. Nos. 1007, 1008 followed by -14, -20, -26, -30, -40, -50, -60, -68, -80, -100; Cat. No. 6601 followed by -20, -28, -32, -44, -52, -68, -84; Cat. No. 6603 followed by -68, -84, -85, -114, -121, -132; Cat. No. 1201 followed by -03 thru -08; Cat. No. 1202 followed by -05; Cat. No. 2416S followed by -20, -26, -32, -34, -40, -50, -52, -60, -68, -80, -100; Cat. Nos. 2216R, 2216S followed by -10, -12, -14, -16, -20, -24, -26, -30, -34, -40, -50, -56, -60, -64; Cat. Nos. 2516R, 2516S followed by -20, -26, -32, -34, -40, -50, -52, -60, -68, -80, -100; Cat. Nos. 2223R, 2223S followed by -02 thru -21; Cat. No. 2323S followed by -02 thru -20; Cat. No. 2316S followed by -10, -14, -16, -20, -26, -30, -34, -40, -50, -60, -64; Cat. No. 2525 followed by -10, -12, -20, -30, -40, -50, -60, -80, -100, -120; Cat. No. 2314S followed by -20, -26, -32, -34, -40, -50, -52, -60, -68, -80, -100; Cat. No. 2224 followed by -02 thru -15; Cat. Nos. 2211R, 2211S followed by -01 thru -40.

Cat. Nos. 2213R, 2213S followed by -02 thru -80; Cat. No. 2212S followed by -02 thru -40; Cat. No. 2214S followed by -02 thru -80; Cat. Nos. 2215R, 2215S followed by -10, -12, -16, -18, -20, -26, -30, -34, -40, -50, -60; Cat. No. 2225 followed by -36, -44, -50, -62, -80, -86, -100; Cat. No. 2207S followed by -02 thru -80; Cat. Nos. 2208R, 2208S followed by -02 thru -80; Cat. No. 2209S followed by -01 thru -40; Cat. Nos. 2210R, 2210S followed by -01 thru -40; Cat. No. 2206S followed by -01 thru -30; Cat. No. 41612 followed by -32, -48, -64, -96.

Mini jumpers, Cat. Nos. 2205, 2228 followed by -02.

Wire to wire connectors, Cat. No. 8182 followed by -04; Cat. Nos. 5005, 5006 followed by -01, -02, -03, -04A, -04B, -05, -06, -09, -12, -15.

D-Sub connectors, Cat. Nos. 5514P, 5514R followed by -13; Cat. Nos. 5512P, 5512S followed by -15, -26, -44, -62; Cat. No. 5511 followed by -09, -15, -25; Cat. No. 5510 followed by -15; Cat. Nos. 5509P, 5509S followed by -15, -26, -62; Cat. Nos. 5508P, 5508S followed by -15, -26, -44, -62; Cat. Nos. 5506P, 5506S followed by -09, -15, -25, -37; Cat. Nos. 5504PF1, 5504SF1, 5504SF2, 5505F1, 5505F2, 5503S, 5503P followed by -09, -15, -25, -37; Cat. Nos. 5501P, 5501S, 5502 followed by -09, -15, -19, -23, -25, -37, -50.

Centronic connectors, Cat. No. 5701 followed by -14, -24, -36; Cat. Nos. 5702, 5703, 5706 followed by -40; Cat. No. 5704 followed by -30; Cat. No. 5707 followed by -20.

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Scart connectors, Cat. Nos. 1109, 1111, 1113 followed by -21; Cat. Nos. 1009, 1011, 1013 followed by -21; Cat. Nos. 1114R, 1114S followed by -21.

Connectors, Model No. 1002S followed by 30, 40, 50, 60 or 68; Model No. 1003-P-50; Model No. 1010 followed by 50 or 68, followed by P-PN; Model No. 1211 followed by 04, 06 or 08, followed by 04, 06 or 08; Model No. 1223 followed by -04 thru 30, followed by 02 or 03; Model No. 1224S followed by 04 thru 27; Model No. 1224SM followed by 04 thru 30; Model No. 1230S followed by 04 thru 15; Model No. 1230R followed by 04 thru 30; Model No. 1250HM followed by 02 thru 15; Model No. 1251SM followed by 02 thru 15; Model No. 1251RM followed by 02 thru 15; Model No. 1251S followed by 02 thru 15, followed by SMD; Model No. 1251R followed by 02 thru 15, followed by SMD; Model No. 1310H followed by 02 thru 15; Model No. 1394-06; Model No. 1778 followed by 16, 20, 22, 24, 28, 30, 32, 40, 42, 48, 52, 54, 56 or 64, followed by 03, 04 or 06; Model No. 1778MC followed by 16, 20, 24, 28, 30, 40, 42, 48, 52, 56 or 64, followed by 03, 04, 06 or 075; Model No. 1999P followed by 04 thru 80; Model No. 1999S followed by 04 thru 120, followed by A1, A2 or A3, followed by B1, B2 or B3; Model No. 2006H followed by 01, thru 06; Model No. 2006S followed by 01 thru 05; Model No. 2010 followed by 10 thru 12, followed by H1, H2, H3 or H4; Model No. 2011-10; Model No. 2016 followed by 10, 12, 14, 16, 20, 22, 24, 26, 30, 34, 36, 40, 44, 50, 60, 64 or 68; Model No. 2018 followed by P or R, followed by 02 thru 12; Model No. 2099P followed by 04 thru 10; Model 2099S followed by 04 thru 14; Model No. 2100P followed by 06 thru 20; Model 2100S followed by 04 thru 10; Model No. 2110 followed by 20, 30, 40, 50, 60, 80 or 100, followed by 34 or 44, followed by MM; Model No. 2114 followed by R, H or S, followed by 02 thru 10; Model No. 2150-08; Model No. 2198S followed by 10, 24, 30, 40, 44, 50, 60, 70, 80, 90 or 100, followed by A1 or A2; Model No. 2199SA followed by 04 thru 30, followed by 01 thru 03; Model No. 2199SB followed by 02 thru 10; followed by A1, A2 or A3, followed by B1 or B2, followed by C1 or C2; Model No. 2199R followed by 0 or 5, followed by 04 thru 30, followed by A1, A2 or A3, followed by B1 or B2, followed by C1 or C2; Model No. 2200SA followed by 05 thru 50, followed by A1 or A2; Model No. 2200SB followed by 10 thru 50, followed by A1 or A2; Model No. 2204 followed by S or R, followed by 02 thru 30; Model No. 2206SA followed by 01 thru 36, followed by 46; Model No. 2206SB followed by 02 thru 16, followed by 46; Model No. 2206PA followed by 01 thru 36, followed by 739; Model No. 2206PB followed by 02 thru 50, followed by 739; Model No. 2227MC followed by 06, 08, 10, 14, 16, 18, 20, 22, 24, 28, 32, 36, 40, 42, 48 or 64, followed by 03, 06 or 09; Model No. 2233 followed by S or R, followed by 03 thru 120; Model No. 2317 followed by SEH or REH, followed by 02 thru 15; Model No. 2317 followed by RM or SM, followed by 02 thru 10; Model No. 2318 followed by HM or HEH, followed by 02 thru 15; Model No. 2323 followed by R or S, followed by 04 thru 23, followed by A or B; Model No. 1016 followed by 09 or 15; Model No. 2007H followed by 02 thru 06; Model No. 2007S followed by 02 thru 05; Model No. 2324S followed by 04 thru 22; Model No. 2324R followed by 03 thru 30; Model No. 2392-5100; Model No. 2417 followed by SB or RB, followed by 02 thru 08; Model No. 2418HB followed by 02 thru 15; Model No. 3750R followed by 02 thru 12; Model No. 3750S followed by 02 or 03; Model No. 3920 followed by 02, 03, 04, 06, 09 or 12; Model No. 3921 followed by 02, 03, 04, 06, 09 or 12; Model No. 41815 followed by R, S or BE, followed by 02 thru 10; Model No. 4407 followed by 10, 14, 16, 20, 26, 34, 40, 50, 60 or 64; Model No. 4408 followed by 10, 12, 16, 20, 24, 26, 30, 34, 40 or 44; Model Nos. 5075AS-04, 5075BR-04, 5075AR-08B, 5075AR-04; Model No. 5197H followed by 02 thru 12; Model No. 5197 followed by S or R, followed by 02 thru 04, may be followed by 01; Model No. 5504F3-09P; Model No. 5513S followed by 3W3, 5W1, 7W2, 8W8, 11W1 or 13W3; Model No. 5515-13W3; Model No. 5557 followed by 02, 04, 06, 08, 10, 12, 14, 16, 18 or 20; Model No. 5559 followed by 02, 04, 06, 08, 10, 12 or 14; Model No. 5566S followed by 02, 04, 06, 08, 10, 12, 14, 16, 18 or 20; Model No. 5569R followed by 02, 04, 06, 08, 10, 12, 14, 16, 18 or 20, may be followed by 01; Model No. 6127 followed by S or P, followed by 02 thru 31; Model No. 6604P followed by 01 thru 40, followed by 9.1, 10.0, 10.6, 12.1 or 13.7; Model No. 6604S followed by 01 thru 40, may be followed by WR; Model No. 6610-321; Model No. 6610P-321, 6615-168-LE; Model No. 8981 followed by SA, SM or R, followed by 04; Model No. 8982S followed by 02 thru 08; Model No. SQJ followed by 24S, 26S, 28S, 28L, 32S or 40L; Model No. 4410-40.

Models 5589, 5321, 5592, 5594.

Cat. No. 1223, followed by 03 thru 32, followed by T or G; Cat. No. 1224R, followed by 03 thru 30; Cat. No. 1226, followed by 04 thru 50, followed by T or G; Cat. No. 1227, followed by S, R or SM, followed by 03 thru 30; Cat. No. 1253R, followed by 02 thru 16, 18, 20, 22, 24, 26, 28 or 30, followed by T or G; Cat. No. 1255R, followed by 02 thru 15, 20, 25 or 30; Cat. No. 1600, followed by S or R, followed by 02 thru 15 or 20, followed by T or G; Cat. Nos. 2000P, 2001S, followed by 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 50, 60, 70, 80, 100, 120, followed by G; Cat. No. 2017, followed by SM, S or R, followed by 10, 12, 14, 16, 20, 22, 24, 26, 30, 34, 40, 44, 50, 60, followed by G; Cat. Nos. 2208, 2213, followed by DI, S, R, SM or SMDI, followed by 02, 04, 06, 08, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78 or 80, followed by G, T or SG; Cat. No. 2209, followed by SM1, SM or S, followed by 2 thru 15, 18, 20, 23, 25, 28, 30, 33, 35, 38 or 40, followed by G, SG, SV or T; Cat. No. 2210, followed by DI, S, R, SM or SMDI, followed by 02, 04, 06, 08, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38 or 40, followed by G, T or SG; Cat. No. 2212TBA, followed by 01 thru 40, followed by G; Cat. Nos. 2214R, 2214TBA, followed by 04, 06, 08, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78 or 80, followed by G; Cat. Nos. 2217R1, 2217S1, followed by 02 thru 20, followed by T or G; Cat. Nos. 2217R2, 2217S2, followed by 02, 04, 06, 08, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38 or 40, followed by T or G; Cat. No. 2316, followed by SM, R or S, followed by 06, 08, 10, 12, 14, 16, 20, 24, 26, 30, 34 or 40, followed by G, T or SG; Cat. Nos. 4409AP, 4409A, 4409, 4409SM, followed by 04, 06, 08, 10, 12, 14, 16, 18, 20, 22, 24 or 26.

Low voltage connectors, Cat. No. 2350SM-02.

Cat. No. 225SM followed by 20, followed by 01; Cat. No. 1226 followed by 30, followed by 02 or 03; Cat. No. 1254SMB followed by 10, 20, 30 or 40; Cat. Nos. 1394S-06, 1394R-06; Cat. No. 1394SM followed by 04; Cat. No. 1394UR followed by 06; Cat. No. 1500 followed by S or R, followed by 2 thru 10; Cat. No. 2000P, followed by 14G, 20G, 30G, 32G, 36G, 40G or 50G, followed by 233; Cat. No. 2001S, followed by 14G, 20G, 30G, 32G, 36G, 40G or 50G, followed by 220; Cat. No. 2212BR followed by 30, followed by G or T; Cat. No. 2212SM followed by 40G, followed by 75; Cat. No. 2214SM followed by 70G, followed by 75; Cat. No. 2214BR followed by 26, followed by G or T; Cat. No. 2214DS followed by 20, followed by 66; Cat. No. 2214TB followed by 2, 4, 6, 8, 10, 12, 14, 16, 18 or 20; Cat. No. 2214113 followed by 64G, followed by 1A, 1B, 2B, 3B, 1C, 2C, 3C or 4C; Cat. No. 2227P followed by 20S, 24G, 28G

32G, followed by 03 or 06; Cat. No. 2228P followed by 2 thru 10; Cat. No. 2234S followed by 96; Cat. No. 2316113 followed by 64G, followed by A, B or C; Cat. No. 231682-3404 followed by 001 thru 006; Cat. No. 2317 followed by SD or RD, followed by 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 or 16; Cat. No. 2325 followed by 18/36, 20/40, 22/44, 28/56, 30/60, 36/72, 40/80, 43/86 or 50/100, followed by L1 or L2; Cat. No. 2392-5100; Cat. No. 2400SM followed by 02, 03 or 04, maybe followed by T1, T2 or T3; Cat. No. 2417 followed by SJ or RJ, followed by 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30 or 32, followed by PHD; Cat. No. 2425 followed by 40, 44, 56, 60, 86 or 100, followed by L1 or L2; Cat. No. 2525 followed by 200; Cat. No. 2526-242-SLOT1; Cat. No. 2710-06 followed by one alphanumeric digit; Cat. No. 4110SM followed by 07, followed by A1, A2 or A3, followed by M; Cat. No. 4120SM followed by 09; Cat. No. 4130SM followed by 10; Cat. Nos. 5075BMR-04-SM, 5075BMR-05-SM, 5075AMR1-04-SM; Cat. No. 5075BS followed by 04, followed by WH; Cat. No. 5075AUR followed by 04; Cat. Nos. 5075ARP-04, 5075ARP-04-SMD; Cat. No. 5198 followed by S or R, followed by 2 thru 10; Cat. No. 6604SB followed by 40WR; Cat. No. 6801S followed by 50, followed by 70; Cat. No. 6831S followed by 40; Cat. No. 7520SL followed by 50P, followed by A, B, C or D; Cat. No. 7520 followed by 50P, followed by T1B3; Cat. Nos. ICA-501-006, ICA-501-008.

Cat. No. 1320H followed by 02 thru 12; Cat. No. 5560 followed by 02, 04, 06, 08, 10, 12, 14, 16 or 18; Cat. No. 5561 followed by 02, 04, 06, 08, 10, 12, 14, 16 or 18; Cat. No. 5561S followed by 02, 04, 06, 08, 10, 12, 14, 16, 18; Cat. No. 5561S followed by 02, 04, 06, 08, 10, 12, 14, 16 or 18, followed by T, followed by SM or SM1; Cat. No. 5561R followed by 02, 04, 06, 08, 10, 12, 14, 16, 18; Cat. No. 5561R followed by 02, 04, 06, 08, 10, 12, 14, 16 or 18, followed by T, followed by SM, SM1 or SM2; Cat. No. 9200P followed by 4B, 6, 9, 12 or 15; Cat. No. 9200R followed by 4B, 6, 9, 12 or 15; Cat. No. 9635P, followed by 09, 12 or 15; Cat. No. 9635R followed by 09, 12 or 15; Cat. No. 2363P followed by 01, 02, 06, 04, 05, 06, 09, 12 or 15, followed by A, followed by 01 or blank; Cat. No. 2363R followed by 01, 02, 06, 04, 05, 06, 09, 12 or 15, followed by A, followed by 01; Cat. Nos. 2650P-08, 2650R-08.

Cat. No. 1320H, followed by 02 thru 12; Cat. No. 5560, followed by 02, 04, 06, 08, 10, 12, 14, 16 or 18; Cat. No. 5561, followed by 02, 04, 06, 08, 10, 12, 14, 16 or 18; Cat. No. 5561S, followed by 02, 04, 06, 08, 10, 12, 14, 16, 18; Cat. No. 5561S, followed by 02, 04, 06, 08, 10, 12, 14, 16 or 18, followed by T, followed by SM or SM1; Cat. No. 5561R, followed by 02, 04, 06, 08, 10, 12, 14, 16, 18; Cat. No. 5561R, followed by 02, 04, 06, 08, 10, 12, 14, 16 or 18, followed by T, followed by SM, SM1 or SM2; Cat. No. 9200P, followed by 4B, 6, 9, 12 or 15; Cat. No. 9200R, followed by 4B, 6, 9, 12 or 15; Cat. No. 9635P, followed by 09, 12 or 15; Cat. No. 9635R, followed by 09, 12 or 15; Cat. No. 2363P, followed by 01, 02, 06, 04, 05, 06, 09, 12 or 15, followed by A, followed by 01 or blank; Cat. No. 2363R, followed by 01, 02, 06, 04, 05, 06, 09, 12 or 15, followed by A, followed by 01; Cat. Nos. 2650P-08, 2650R-08.

Connectors, Cat. No. 1253H, followed by 02 thru 16, 18, 20, 22, 24, 26, 28 or 30; Cat. Nos. 1254HA, 1254RA, 1254SA and 2114H, followed by 02 thru 15; Cat. No. 1254HB, followed by 10, 20, 30 or 40; Cat. No. 1255H, followed by 02 thru 10, 12, 20, 25 or 30; Cat. No. 1600H and 2220H, followed by 02 thru 20; Cat. No. 1600HB and 1600RMB, followed by 20, 30, 40 or 50; Cat. No. 1600SMB, followed by 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 40 or 50, followed by CR or blank; Cat. No. 1602H, followed by 08, 14, 20 or 30; Cat. Nos. 2004P and 2004S, followed by 10, 14, 16, 20, 24, 26, 30, 32, 34, 36, 40, 46, 50, 60, 70 or 80, followed by G; Cat. Nos. 2005P and 2005S, followed by 31 or 41; Cat. Nos. 2010 and 2011, followed by 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 50, 60, 68, 70, 80, 90, followed by G; Cat. Nos. 2065P and 2065S, followed by 10, 20, 30, 40, 50 or 52, followed by G; Cat. Nos. 2199RA and 2199SA, followed by 02 thru 50, followed by G; Cat. Nos. 2199R0 and 2199R5, followed by 02, 04, 06, 08, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98 or 100, followed by G; Cat. Nos. 2199SB and 2200SB, followed by 04, 06, 08, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 100, followed by G; Cat. No. 2207SM, followed by 04, 06, 08, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78 or 80, followed by G; Cat. No. 2211, followed by DI or SM, followed by 02 thru 40, followed by G, T or SG; Cat. No. 2212111, followed by 02 thru 40, followed by G, followed by 1A, 1B, 1C, 2B, 2C, 3B, 3C or 4C; Cat. Nos. 2212R and 2212TB, followed by 02 thru 40, followed by G, SG or T; Cat. No. 2801SM, followed by 02 thru 05, followed by G; Cat. Nos. 5560A and 5561A, followed by 02 thru 12; Cat. No. 4409AS, followed by 04, 06, 08, 10, 12, 14, 16, 18, 20, 22, 24 and 26; Cat. No. 5075ABMR, followed by 05, followed by SM or SM1; Cat. No. 5198H, followed by 02 thru 10; Cat. No. 5289, followed by R or S, followed by 02 thru 12; Cat. No. 5504F1RS, followed by 09, 15, 25 or 37, followed by S; Cat. Nos. 5513P-13W3, 5513S-13W3, 5514P-13W3, 5514S-13W3, 5515P-13W3 and 5515S-13W3; Cat. Nos. 5518R-24-1M15, 5518R-24-5M15, 5518S-24-5M15; Cat. No. 6604PB, followed by 04, 06, 08, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78 or 80, followed by G or T; Cat. Nos. 6803S and 6832S, followed by 04, 06, 08, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78 or 80, followed by G, SG or T; Cat. Nos. 6831S and 7801R, followed by 02 thru 40; Cat. No. 6833S, followed by 04, 06, 08, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78 or 80; Cat. No. 6850, followed by R, S or SM, followed by 02 thru 50, followed by G or T; Cat. No. 6852, followed by R1 or S1, followed by 04, 06, 08, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78 or 80, followed by G or T; Cat. No. 6853, followed by R1 or S1, followed by 04, 06, 08, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78 or 80; Cat. No. 8982R, followed by 02 thru 04.

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