

# 승 인 원

DATE : 2005/10/18

PRODUCT NAME : RJ45 1\*1 with Transformer & LED  
TAB DOWN

SPEEDTECH NO : P52-P14-37C9(LEAD-FREE)

## *S T E C H K O R E A*

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첨부된 Spec 에 대하여 승인을 요청합니다.

# SPECIFICATION

SPEC. NO. : \_\_\_\_\_ REV : XA

DATE : 28-Sep-2005

PRODUCT NAME : RJD 1X1 WITH TRANSFORMER & LED  
TAB DOWN

PRODUCT NO : P52-P14-37C9(Lead Free)

宣 德 科 技 股 份 有 限 公 司

***SPEED TECH CORP.***

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	APPROVED	CHECKED	PREPARED
NAME			

Product Number : P52-P14-37C9(lead free)

Product Description : RJD 1X1 TAB DOWN WITH TRANSFORMER & LED

## 1 SCOPE

### 1.1 Content

1.1.1 This specification covers performance, tests and quality requirements for RJD 1X1 Tab Down with Transformer & LED.

## 2 APPLICABLE DOCUMENTS

The following documents form a part of this specification to the extent specified herein. Unless otherwise specified, latest edition of the specification applies. In the event of conflict between requirements of this specification and product drawing, product drawing shall take precedence.

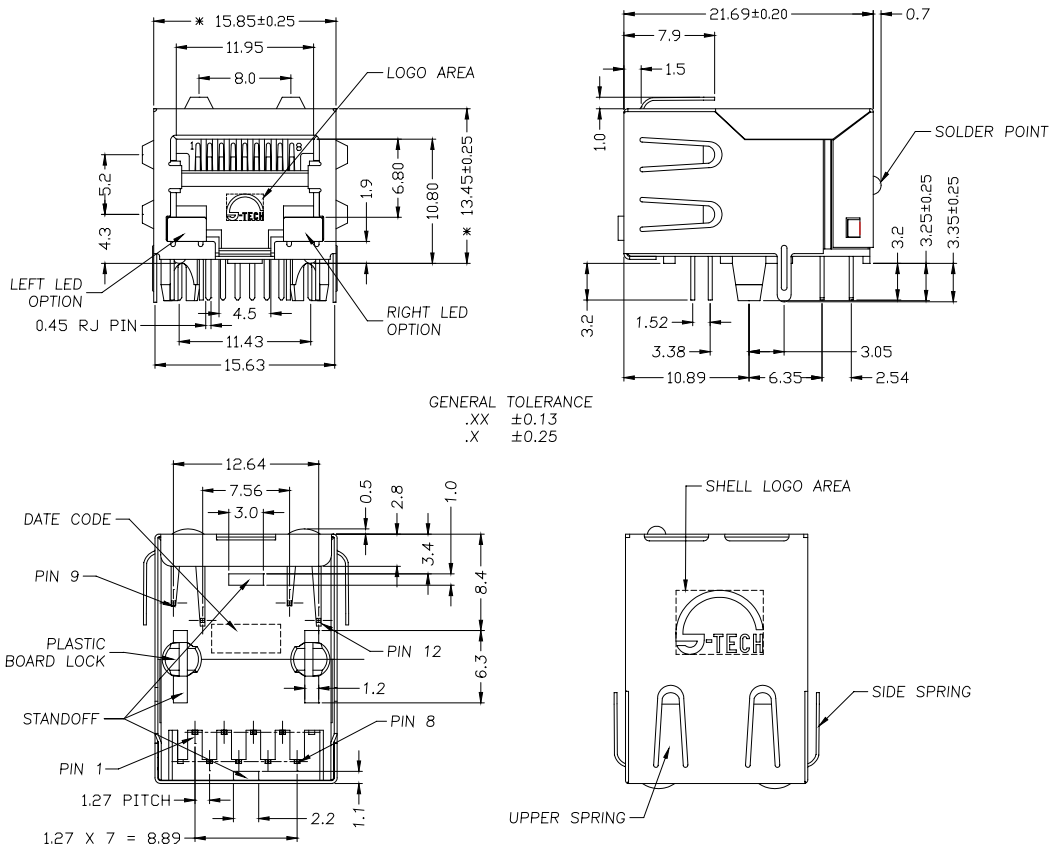
### 2.1 Commercial standards, specifications and report

2.1.1 MIL-STD-1344A

2.1.2 EIA-364

## 3 MECHANIC DIMENSIONS

### 3.1 Dimensions



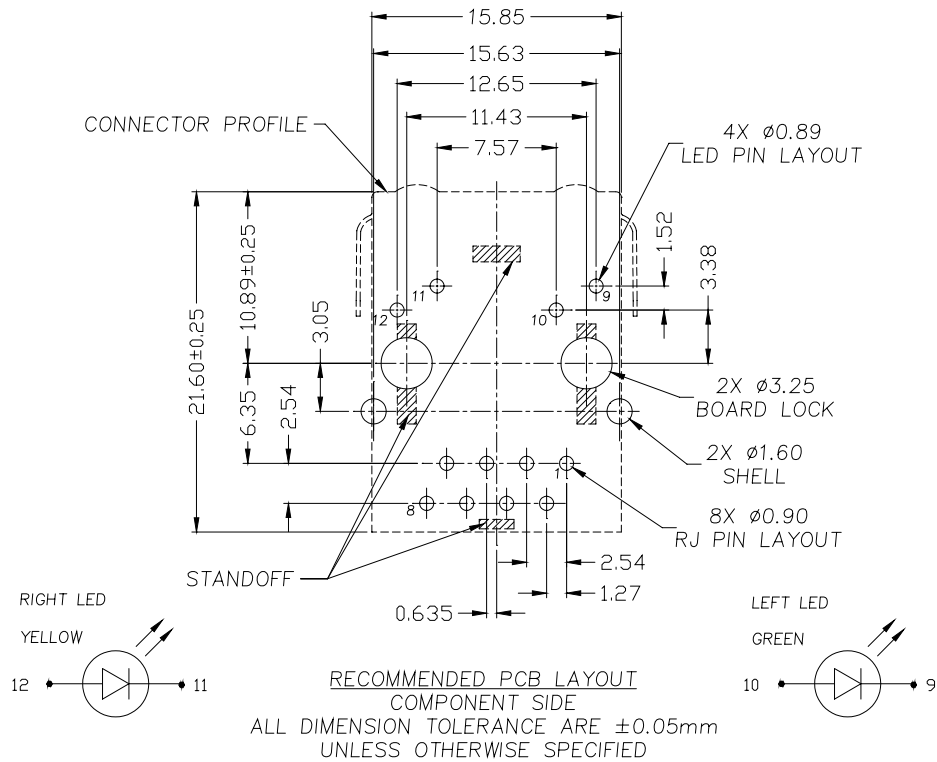
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REV : XA

ECN NO. :

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### 3.2 PCB Layout



## 4 REQUIREMENTS

### 4.1 Design and Construction

4.1.1 Product shall be of design, construction and physical dimensions specified on applicable product drawing.

### 4.2 Materials and Finish

#### 4.2.1 Contact :

4.2.1.1 RJ Contact : Phosphor Bronze , Thickness=0.30mm

Finish : ( a ) Contact Area :  $30\ \mu\text{m}$  min. Gold

( b ) Solder tail Area :  $100\ \mu\text{m}$  min. Tin

( c ) Underplating :  $50\ \mu\text{m}$  min. Nickel over all

4.2.1.2 Joint Contact : Brass , Thickness=0.35mm

Finish : gold flash or Tin

4.2.1.3 LED Contact : Brass , Thickness=0.20mm

Finish : gold flash or Tin

#### 4.2.2 Plastic Part :

4.2.2.1 Housing : Thermoplastic , PA6T , Black

UL FILE No. : E52579(M)

Manufacturer : MITSUI Petrochemical Industries

Grade : CH230N

Flame Class : UL 94V-0

4.2.2.2 Insert : Thermoplastic , PA6T , Black

UL FILE No. : E52579(M)

Manufacturer : MITSUI Petrochemical Industries

Grade : CH230N

Flame Class : UL 94V-0

4.2.2.3 Transparent Cover : Thermoplastic , PC , Transparent

UL FILE No. : E45587

Manufacturer : General Electric

Grade : 940A

Flame Class : UL 94V-0

4.2.3 Shell

4.2.3.1 Front Shell : Stainless, SUS304-1/2H , Thickness=0.25mm

4.2.3.2 Back Shell : Stainless, SUS304-1/2H , Thickness=0.25mm

4.2.3.3 Shell of grounding pin : pre-soldering : Sn/Ag/Cu(96.5/3/0.5)

4.2.4 LED Lamp

4.2.4.1 Lens Color : Water Clean

4.2.4.2 Emitted Color : Green & Yellow

4.2.4.3 View Angle : 130°

4.2.4.4 Wave Length : Green 573nm ; Yellow 589nm

4.2.5 Transformer

4.2.5.1 Material : FR4, Thickness=0.40mm

4.2.5.2 Two Layer PCB

4.3 Operating and Storage Temperature

4.3.1 Operating Temperature : 0°C TO +70°C

4.3.2 Non-Operating Temperature : -40°C TO +85°C

4.4 Ratings

4.4.1 Voltage rating : 125 VAC

4.4.2 Current rating : 1.5 A

4.5 Performance and Test Description

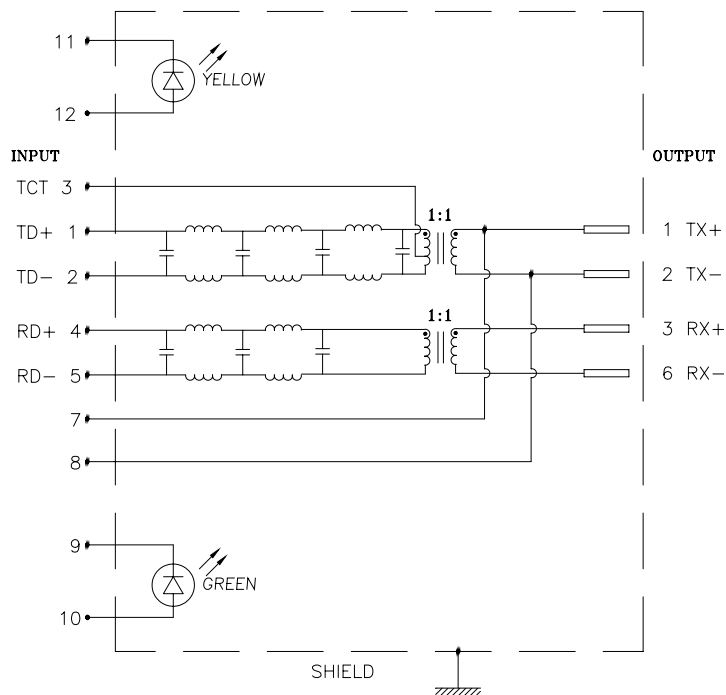
Product is designed to meet electrical, mechanical and environmental performance requirements specified in below table. All tests are performed at ambient environmental conditions per MIL-STD-1344A and EIA-364 unless otherwise specified.

4.6 Packaging and Packing

All parts shall be packaged and packed to protect against physical damage, corrosion and deterioration during shipment and storage.

## 5 ELECTRICAL CHARACTERISTICS

### 5.1 Schematic



### 5.2 Transmitter filter

Type : Balance low pass  $100\Omega$  impedance

Cut off frequency :  $17\pm 1.5\text{MHz}$   $-3.0\text{dB}$  TYP

Insertion loss :  $1\sim 10\text{MHz}$   $-1.0\text{dB}$  MAX.

Attenuation : @  $30\text{MHz}$   $-28\text{dB}$  MIN.

@  $50\text{MHz}$   $-33\text{dB}$  MIN.

Return loss :  $1\sim 10\text{MHz}$   $-16\text{dB}$  MIN. load  $100\Omega$

### 5.3 Receiver filter

Type : Balance low pass  $100\Omega$  impedance

Insertion loss :  $1\sim 100\text{MHz}$   $-1.0\text{dB}$  MAX.

Cut off frequency :  $17\pm 1.5\text{MHz}$   $-3.0\text{dB}$  TYP

Attenuation : @  $30\text{MHz}$   $-20\text{dB}$  MIN.

@  $50\text{MHz}$   $-25\text{dB}$  MIN.

Return loss :  $1\sim 10\text{MHz}$   $-16\text{dB}$  MIN. load  $100\Omega$

### 5.4 Common Mode Rejection

@  $1\sim 50\text{MHz}$   $-30\text{dB}$  MIN.

@  $50\sim 100\text{MHz}$   $-25\text{dB}$  MIN.

### 5.5 Cross Talk

@  $1\sim 10\text{MHz}$   $-30\text{dB}$  MIN

### 5.6 HiPot TEST

Input(1-2) to Output(1-2) :  $1500\text{VAC}$ ,  $60\text{sec}$

Input(4-5) to Output(3-6) :  $1500\text{VAC}$ ,  $60\text{sec}$

6 ORDER INFORMATION

P 5 2 - P X X - X XX X  
A B C D E

A : LED Code

W/O LED:		Right LED					
Z		Yellow	Green	Orange	G/O	G/Y	Blue
Left LED	Yellow	-	4	-	C	H	-
	Green	1	5	9	D	J	0
	Orange	-	6	-	F	-	-
	G/O	3	7	B	G	-	-
	G/Y	N	P	-	-	S	-
	Blue	-	2	-	-	-	-

B : Spring Code

- 1 : w/ All Grounding Spring , 1.7mm
- 2 : w/o All Grounding Spring
- 3 : w/ Upper Grounding Spring Only
- 4 : w/ All Grounding Spring , 1.0mm

C : Logo Code

- 3 : w/ LOGO , 8P8C, led pin 3.2mm

D : Schematic Code

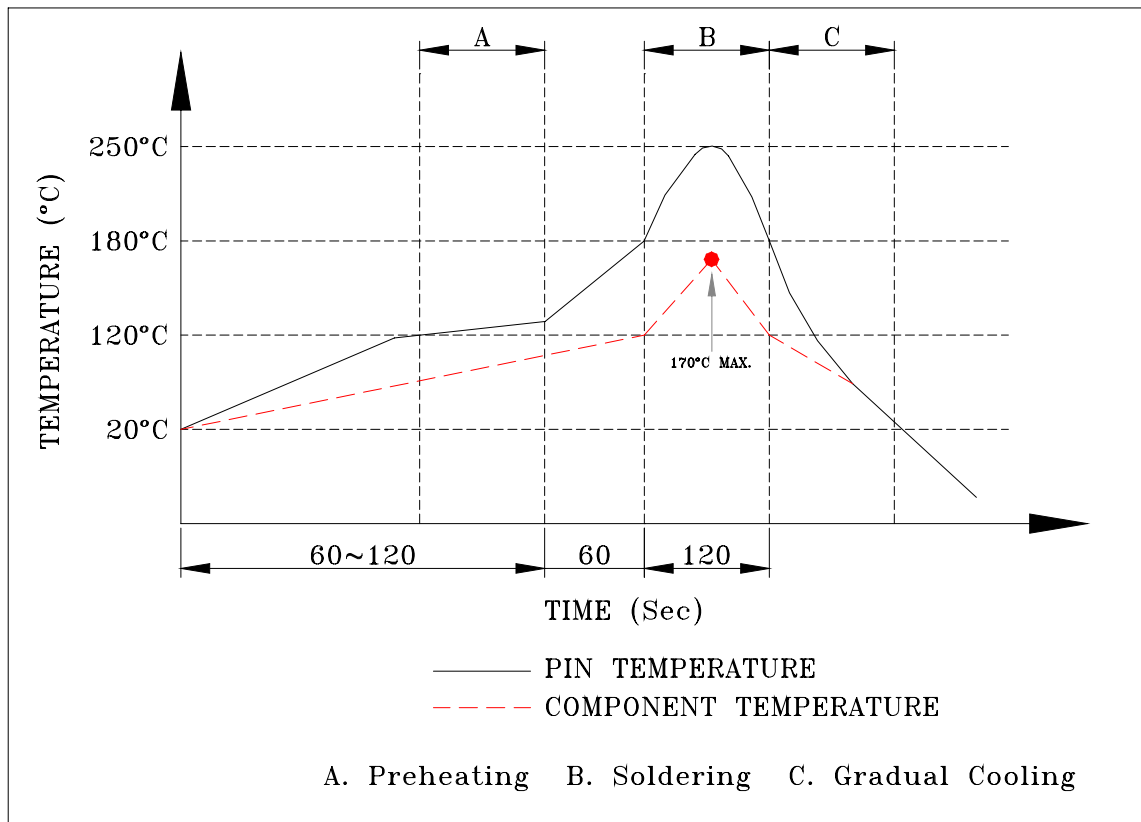
- 7C : 7C Type Circuit

E : Contact Plating Code

- 0 : Tin/Lead 100 μ”
- 6 : 1~3 μ” Gold on Contact Area
- 7 : 10 μ” minimum Gold on Contact Area
- 8 : 15 μ” minimum Gold on Contact Area
- 9 : 30 μ” minimum Gold on Contact Area
- A : 50 μ” minimum Gold on Contact Area

7 Profile of Wave Solder

7.1 PROFILE OF WAVE SOLDER



SUGGESTED WAVE SOLDER CURVE

(1)Tip temperature :  $250 \pm 10^\circ\text{C}$

(2)Tip temperature time : 5sec max

\*The melting point of Sn 96.5 / Ag 3 / Cu 0.5 :  $217^\circ\text{C}$





## ENVIRONMENT & RELIABILITY

### TEST REPORT

**DESCRIPTION :** RJD 1 × 1 WITH TRANSFORMER  
& LED TAB DOWN

**PART :** [P52-P14-37C9](#)

**CUSTOMER :** \_\_\_\_\_

**TEST ITEM :** **REFER TO SPECIFICATION**

CHECKED BY	PREPARED BY
Jennifer	Caelie

*DONGGUAN SPEED TECH ELECTRONICS CO., LTC.*

*2005-09-30*

Q-P14-R03A



**SPEED TECH CORPORATION  
RELIABILITY TEST REPORT**

PART NO.	: <u>P52-P14-37C9</u>	DATE	: <u>2005-09-30</u>
CUSTOMER	: _____	TEMP.	: <u>24°C</u>
SAMPLE SIZE	: <u>10PCS</u>	HUMI.	: <u>62%</u>
TEST ITEM	: <u>LOW LEVEL CONTACT RESISTANCE</u>		

**TEST EQUIPMENT :**

1. HUMIDITY-TEMPERATURE SENSOR : GALLTEC KZC3/5
2. AUTOMATIC TRANSFORMER TEST SYSTEM : ZENTECH 3250
3. RF NETWORK ANALYZER : AGILENT 8712ET
4. MICRO OHM METER : HP 34420A

**TEST METHOD OR CONDITION :**

MATE SUBJECT CONNECTOR WITH COMPATIBLE CONNECTOR.  
REFER TO MIL-STD-1344A, METHOD 3002.1

**TEST CRITERIA:**

30mΩ MAXIMUM.

**TEST RESULT:**

SEE THE ATTACHMENT PAGE

**JUDGE :** PASS

**SPEED TECH CORPORATION  
RELIABILITY TEST REPORT**

**TEST RESULT:**

unit: m $\Omega$	MIN.	MAX.	AVG.
SAMPLE 1	13.64	17.64	15.64
SAMPLE 2	15.29	18.29	16.79
SAMPLE 3	15.38	17.28	16.33
SAMPLE 4	15.08	18.52	16.80
SAMPLE 5	13.67	18.35	16.01
SAMPLE 6	14.08	19.64	16.86
SAMPLE 7	14.67	18.31	18.31
SAMPLE 8	14.92	19.23	17.08
SAMPLE 9	14.85	17.98	16.42
SAMPLE 10	14.23	18.06	16.15

**JUDGE : PASS**

**SPEED TECH CORPORATION  
RELIABILITY TEST REPORT**

PART NO. : <u>P52-P14-37C9</u>	DATE : <u>2005-09-30</u>
CUSTOMER : _____	TEMP. : <u>24°C</u>
SAMPLE SIZE : <u>10PCS</u>	HUMI. : <u>62%</u>
TEST ITEM : <u>INSULATION RESISTANCE</u>	

<b>TEST EQUIPMENT :</b> 1. HUMIDITY-TEMPERATURE SENSOR : GALLTEC KZC3/5 2. AUTOMATIC TRANSFORMER TEST SYSTEM : ZENTECH 3250 3. RF NETWORK ANALYZER : AGILENT 8712ET 4. WITHSTANDING VOLTAGE / INSULATION RESISTANCE TESTER : CHENHWA 9052
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<b>TEST METHOD OR CONDITION :</b> 1. DC VOLTAGE : 100 VDC 2. TEST TIME : 60 SEC 3. METHOD : MIL-STD-1344A, MEHTOD 3003.1
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<b>TEST CRITERIA:</b> 1000MΩ MINIMUM
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<b>TEST RESULT:</b> 1.SAMPLE 1 : >1000MΩ 2.SAMPLE 2 : >1000MΩ 3.SAMPLE 3 : >1000MΩ 4.SAMPLE 4 : >1000MΩ 5.SAMPLE 5 : >1000MΩ 6.SAMPLE 6 : >1000MΩ 7.SAMPLE 8 : >1000MΩ 8.SAMPLE 8 : >1000MΩ 9.SAMPLE 9 : >1000MΩ 10.SAMPLE10 : >1000MΩ
<b>JUDGE :</b> <u>PASS</u>

**SPEED TECH CORPORATION  
RELIABILITY TEST REPORT**

PART NO.	: <u>    P52-P14-37C9    </u>	DATE	: <u>    2005-09-30    </u>
CUSTOMER	: <u>                            </u>	TEMP.	: <u>    24°C    </u>
SAMPLE SIZE	: <u>    10PCS    </u>	HUMI.	: <u>    62%    </u>
TEST ITEM	: <u>    DIELECTRIC WITHSTANDING VOLTAGE    </u>		

**TEST EQUIPMENT :**

1. HUMIDITY-TEMPERATURE SENSOR : GALLTEC KZC3/5
2. AUTOMATIC TRANSFORMER TEST SYSTEM : ZENTECH 3250
3. RF NETWORK ANALYZER : AGILENT 8712ET
4. WITHSTANDING VOLTAGE / INSULATION RESISTANCE TESTER :  
    CHENHWA 9052

**TEST METHOD OR CONDITION :**

1. VOLTAGE :       1000VAC
2. TEST TIME :     60SEC
3. METHOD :        MIL-STD-1344A, METHOD 3003.1

**TEST CRITERIA:**

1. NO DISCHARGE, FLASHOVER AND BREAKDOWN
2. CURRENT LEAKAGE :     0.5mA MAXIMUM

**TEST RESULT:**

ALL SAMPLES COULD MEETS THE TEST CRITERIA.  
MEET REQUIREMENT

**JUDGE :     PASS**

**SPEED TECH CORPORATION  
RELIABILITY TEST REPORT**

PART NO.	: <u>    P52-P14-37C9    </u>	DATE	: <u>    2005-09-30    </u>
CUSTOMER	: <u>                            </u>	TEMP.	: <u>    24°C    </u>
SAMPLE SIZE	: <u>    10PCS    </u>	HUMI.	: <u>    62%    </u>
TEST ITEM	: <u>    VIBRATION    </u>		

**TEST EQUIPMENT :**

1. HUMIDITY-TEMPERATURE SENSOR : GALLTEC KZC3/5
2. AUTOMATIC TRANSFORMER TEST SYSTEM : ZENTECH 3250
3. RF NETWORK ANALYZER : AGILENT 8712ET
4. VIBRATION MACHINE : TW-200

**TEST METHOD OR CONDITION :**

1. SWEEPING FREQUENCY : 10-50-10 Hz / MIN
2. AMPLITUDE : 1.52mm
3. DIRECTION : X,Y&Z AXES
4. DURATION : 2 HRS / AXES

**TEST CRITERIA:**

1. NO ELECTRICAL DISCONTINUITY GREATER THAN 1uS SHALL OCCUR.

**TEST RESULT:**

ALL SAMPLES COULD MEETS THE TEST CRITERIA.

**JUDGE :     PASS**

**SPEED TECH CORPORATION  
RELIABILITY TEST REPORT**

PART NO.	: <u>P52-P14-37C9</u>	DATE	: <u>2005-09-30</u>
CUSTOMER	: _____	TEMP.	: <u>24°C</u>
SAMPLE SIZE	: <u>10PCS</u>	HUMI.	: <u>62%</u>
TEST ITEM	: <u>SOLDERABILITY</u>		

**TEST EQUIPMENT :**

1. HUMIDITY-TEMPERATURE SENSOR : GALLTEC KZC3/5
2. AUTOMATIC TRANSFORMER TEST SYSTEM : ZENTECH 3250
3. RF NETWORK ANALYZER : AGILENT 8712ET
4. SOLDERABILITY TESTER

**TEST METHOD OR CONDITION :**

1. INTO FLUX FOR 5~10 SECONDS.
2. TEMPERATURE :  $265\pm 5^{\circ}\text{C}$
3. CONTROLLED TIME :  $3\pm 0.5$  SECONDS

**TEST CRITERIA:**

1. SOLDER COVERAGE : 95% MINIMUM AT SOLDERABLE AREA

**TEST RESULT:**

ALL SAMPLES COULD MEETS THE TEST CRITERIA.

**JUDGE :** PASS



**SPEED TECH CORPORATION  
RELIABILITY TEST REPORT**

PART NO.	: <u>P52-P14-37C9</u>	DATE	: <u>2005-09-30</u>
CUSTOMER	: _____	TEMP.	: <u>24°C</u>
SAMPLE SIZE	: <u>10PCS</u>	HUMI.	: <u>62%</u>
TEST ITEM	: <u>PHYSICAL SHOCK</u>		

**TEST EQUIPMENT :**

1. HUMIDITY-TEMPERATURE SENSOR : GALLTEC KZC3/5
2. AUTOMATIC TRANSFORMER TEST SYSTEM : ZENTECH 3250
3. RF NETWORK ANALYZER : AGILENT 8712ET
4. PHYSICAL SHOCK : TW-200

**TEST METHOD OR CONDITION :**

1. 50G MAX. TO FORM HALF SINE PULSE OF 0.5 MILLISECONDS DURATION
2. DIRECTION : X, Y & Z AXES
3. Three SHOCKS / AXES
4. CURRENT 100mA
5. METHOD : MIL-STD-1344A, METHOD 2004.1

**TEST CRITERIA:**

1. NO ELECTRICAL DISCONTINUITY GREATER THAN 1uS
2. SHALL MEET VISAL REQUIREMENTS, SHOW NO PHYSICAL DAMAGE

**TEST RESULT:**

1. SAMPLE 1 :	MEET REQUIREMENT	6. SAMPLE 6 :	MEET REQUIREMENT
2. SAMPLE 2 :	MEET REQUIREMENT	7. SAMPLE 7 :	MEET REQUIREMENT
3. SAMPLE 3 :	MEET REQUIREMENT	8. SAMPLE 8 :	MEET REQUIREMENT
4. SAMPLE 4 :	MEET REQUIREMENT	9. SAMPLE 9 :	MEET REQUIREMENT
5. SAMPLE 5 :	MEET REQUIREMENT	10. SAMPLE 10 :	MEET REQUIREMENT

**JUDGE : PASS**

SPEED TECH CORPORATION  
RELIABILITY TEST REPORT

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**SPEED TECH CORPORATION  
RELIABILITY TEST REPORT**

PART NO.	: <u>    P52-P14-37C9    </u>	DATE	: <u>    2005-09-30    </u>
CUSTOMER	: <u>                            </u>	TEMP.	: <u>    24°C    </u>
SAMPLE SIZE	: <u>    10PCS    </u>	HUMI.	: <u>    62%    </u>
TEST ITEM	: <u>    DURABILITY    </u>		

**TEST EQUIPMENT :**

1. HUMIDITY-TEMPERATURE SENSOR : GALLTEC KZC3/5
2. AUTOMATIC TRANSFORMER TEST SYSTEM : ZENTECH 3250
3. RF NETWORK ANALYZER : AGILENT 8712ET
4. DURABILITY TESTER : SE 1220
5. MICRO OHM METER : HP 34420A

**TEST METHOD OR CONDITION :**

1. TEST RATE : 25mm/min
2. TEST TIMES : 1500 cycles
3. METHOD : EIA-364-09B

**TEST CRITERIA:**

1. NO FUNCTION DAMAGE
2.  $\Delta R = 30 \text{ m}\Omega$  MAXIMUM FINAL

**TEST RESULT:**

SEE THE ATTACHMENT PAGE

**JUDGE :     PASS**

**SPEED TECH CORPORATION  
RELIABILITY TEST REPORT**

**TEST RESULT:**

unit: m $\Omega$	MIN.	MAX.	AVG.
SAMPLE 1	12.34	17.85	14.66
SAMPLE 2	11.61	17.64	14.63
SAMPLE 3	11.08	17.29	14.19
SAMPLE 4	11.31	18.34	14.83
SAMPLE 5	10.69	18.95	14.82
SAMPLE 6	10.58	17.39	14.84
SAMPLE 7	10.97	18.91	14.94
SAMPLE 8	11.38	18.56	14.97
SAMPLE 9	11.94	18.37	15.16
SAMPLE 10	12.35	18.29	14.56

**JUDGE : PASS**

**SPEED TECH CORPORATION  
RELIABILITY TEST REPORT**

PART NO.	: <u>    P52-P14-37C9    </u>	DATE	: <u>    2005-09-30    </u>
CUSTOMER	: <u>                            </u>	TEMP.	: <u>    24°C    </u>
SAMPLE SIZE	: <u>    10PCS    </u>	HUMI.	: <u>    62%    </u>
TEST ITEM	: <u>    THERMAL SHOCK    </u>		

**TEST EQUIPMENT :**

1. HUMIDITY-TEMPERATURE SENSOR : GALLTEC KZC3/5
2. AUTOMATIC TRANSFORMER TEST SYSTEM : ZENTECH 3250
3. RF NETWORK ANALYZER : AGILENT 8712ET
4. TEMPERATURE SHOCK CHAMBER : TSG-70H-W
5. MICRO OHM METER : HP 34420A

**TEST METHOD OR CONDITION :**

1. TEMPERATURE :     -55°C ~ 85°C
2. HOLDING TIME :     30 minutes at the both extremes
3. CYCLE TIMES :     5
4. REFER TO TEST METHOD 107 OF MIL-STD-202F

**TEST CRITERIA:**

1. NO PHYSICAL ABNORMALITIES SHALL BE PRESENT AFTER THE TEST.
2. LOW LEVEL CONTACT RESISTANCE  $\Delta R = 50 \text{ m}\Omega$  MAXIMUM FINAL

**TEST RESULT:**

SEE THE ATTACHMENT PAGE

**JUDGE :     PASS**

**SPEED TECH CORPORATION  
RELIABILITY TEST REPORT**

**TEST RESULT:**

unit: m $\Omega$	MIN.	MAX.	AVG.	VISAL
SAMPLE 1	12.34	17.36	14.85	MEET REQUIREMENTS
SAMPLE 2	11.64	17.54	14.59	MEET REQUIREMENTS
SAMPLE 3	11.25	17.85	14.55	MEET REQUIREMENTS
SAMPLE 4	11.96	16.39	14.18	MEET REQUIREMENTS
SAMPLE 5	11.37	16.25	13.81	MEET REQUIREMENTS
SAMPLE 6	12.09	16.95	14.52	MEET REQUIREMENTS
SAMPLE 7	10.23	17.85	14.04	MEET REQUIREMENTS
SAMPLE 8	11.35	17.64	14.50	MEET REQUIREMENTS
SAMPLE 9	12.65	17.59	15.12	MEET REQUIREMENTS
SAMPLE 10	12.09	17.82	14.96	MEET REQUIREMENTS

**JUDGE : PASS**

**SPEED TECH CORPORATION  
RELIABILITY TEST REPORT**

PART NO.	: <u>    P52-P14-37C9    </u>	DATE	: <u>    2005-09-30    </u>
CUSTOMER	: <u>                            </u>	TEMP.	: <u>    24°C    </u>
SAMPLE SIZE	: <u>    10PCS    </u>	HUMI.	: <u>    62%    </u>
TEST ITEM	: MOISTURE RESISTANCE TESTING		

**TEST EQUIPMENT :**

1. HUMIDITY-TEMPERATURE SENSOR : GALLTEC KZC3/5
2. AUTOMATIC TRANSFORMER TEST SYSTEM : ZENTECH 3250
3. RF NETWORK ANALYZER : AGILENT 8712ET
4. TEMPERATURE HUMIDITY CHAMBER :KSON THS-A7C-150
5. MICRO OHM METER : AGILENT 34420A

**TEST METHOD OR CONDITION :**

TEMP:	40±2°C
HUMIDITY:	90~95%
TIME:	96H

**TEST CRITERIA:**

1. NO FUNCTION DAMAGE
2. NO DISCONTINUITY OVER 1us

**TEST RESULT:**

ALL THE SAMPLES MEET REQUIREMENT

**JUDGE :**     PASS

**SPEED TECH CORPORATION  
RELIABILITY TEST REPORT**

PART NO.	: <u>    P52-P14-37C9    </u>	DATE	: <u>    2005-09-30    </u>
CUSTOMER	: <u>                            </u>	TEMP.	: <u>    24°C    </u>
SAMPLE SIZE	: <u>    10PCS    </u>	HUMI.	: <u>    62%    </u>
TEST ITEM	: <u>    HUMIDITY-TEMPERATURE CYCLING    </u>		

**TEST EQUIPMENT :**

1. HUMIDITY-TEMPERATURE SENSOR : GALLTEC KZC3/5
2. AUTOMATIC TRANSFORMER TEST SYSTEM : ZENTECH 3250
3. RF NETWORK ANALYZER : AGILENT 8712ET
4. TEMPERATURE HUMIDITY CHAMBER : KSON THS-17C-150
5. MICRO OHM METER : HP 34420A

**TEST METHOD OR CONDITION :**

1. MATED CONNECTOR SHALL BE SUBJECT TO THE TEST CONDITION IN ACCORDANCE WITH TEST METHOD 106E OF MIL-STD-202F, EXCEPT STEP 7b.

**TEST CRITERIA:**

1. NO PHYSICAL ABNORMALITIES SHALL BE PRESENT AFTER THE TEST.
2. LOW LEVEL CONTACT RESISTANCE  $\Delta R = 50 \text{ m}\Omega$  MAXIMUM FINAL

**TEST RESULT:**

SEE THE ATTACHMENT PAGE

**JUDGE :     PASS**



**SPEED TECH CORPORATION  
RELIABILITY TEST REPORT**

**TEST RESULT:**

unit: m $\Omega$	MIN.	MAX.	AVG.	VISAL
SAMPLE 1	11.05	17.64	14.35	MEET REQUIREMENTS
SAMPLE 2	12.31	18.39	15.35	MEET REQUIREMENTS
SAMPLE 3	11.38	16.95	14.17	MEET REQUIREMENTS
SAMPLE 4	12.64	17.82	15.23	MEET REQUIREMENTS
SAMPLE 5	12.56	17.34	14.95	MEET REQUIREMENTS
SAMPLE 6	12.37	17.29	14.83	MEET REQUIREMENTS
SAMPLE 7	12.64	18.35	15.50	MEET REQUIREMENTS
SAMPLE 8	11.95	18.26	15.11	MEET REQUIREMENTS
SAMPLE 9	1182	18.45	600.23	MEET REQUIREMENTS
SAMPLE 10	13.08	17.31	15.20	MEET REQUIREMENTS

**JUDGE : PASS**

**SPEED TECH CORPORATION  
RELIABILITY TEST REPORT**

PART NO.	: P52-P14-37C9	DATE	: 2005-09-30
CUSTOMER	: _____	TEMP.	: 24°C
SAMPLE SIZE	: 10PCS	HUMI.	: 62%
TEST ITEM	TEMPERATURE LIFE		

**TEST EQUIPMENT :**

1. HUMIDITY-TEMPERATURE SENSOR : GALLTEC KZC3/5
2. AUTOMATIC TRANSFORMER TEST SYSTEM : ZENTECH 3250
3. RF NETWORK ANALYZER : AGILENT 8712ET
4. TEMPERATURE SHOCK CHAMBER : PHH-101
5. MICRO OHM METER : HP 34420A

**TEST METHOD OR CONDITION :**

1. TEST TEMPERRATURE 70°C
2. TEST TIMES : 96 H
3. METHOD : MIL-STD-1344A METHOD 1005.1

**TEST CRITERIA:**

1. SHALL MEET VISAL REQUIREMENTS,SHOW NO PHYSICAL DAMAGE
2.  $\Delta R = 50 \text{ m}\Omega$  MAXIMUM FINAL

**TEST RESULT:**

ALL THE SAMPLE MEET REQUIREMENT  
THE DATA SEE THE ATTACHED FILE

# SPEED TECH CORPORATION RELIABILITY TEST REPORT

## TEST RESULT:

unit: m $\Omega$	MIN.	MAX.	AVG.	VISAL
SAMPLE 1	11.97	17.69	14.83	MEET REQUIREMENTS
SAMPLE 2	13.35	17.52	15.44	MEET REQUIREMENTS
SAMPLE 3	11.49	17.35	14.42	MEET REQUIREMENTS
SAMPLE 4	11.54	17.84	14.69	MEET REQUIREMENTS
SAMPLE 5	12.08	16.96	14.52	MEET REQUIREMENTS
SAMPLE 6	12.37	18.25	15.31	MEET REQUIREMENTS
SAMPLE 7	12.96	18.39	15.68	MEET REQUIREMENTS
SAMPLE 8	12.52	18.24	15.38	MEET REQUIREMENTS
SAMPLE 9	11.68	17.34	14.51	MEET REQUIREMENTS
SAMPLE 10	12.64	18.05	15.35	MEET REQUIREMENTS

SPEED TECH CORPORATION  
RELIABILITY TEST REPORT

**JUDGE PASS**

PART NO.	: <u>P52-P14-37C9</u>	DATE	: <u>2005-09-30</u>
CUSTOMER	: _____	TEMP.	: <u>24°C</u>
SAMPLE SIZE	: <u>10PCS</u>	HUMI.	: <u>62%</u>
TEST ITEM	: <u>SALT SPRAY</u>		

**TEST EQUIPMENT :**

1. HUMIDITY-TEMPERATURE SENSOR : GALLTEC KZC3/5
2. AUTOMATIC TRANSFORMER TEST SYSTEM : ZENTECH 3250
3. RF NETWORK ANALYZER : AGILENT 8712ET
4. MICRO OHM METER : HP 34420A
5. GSST-060 SALT SPRAY TESTER

**TEST METHOD OR CONDITION :**

1. EXPOSURE UNDER 5% SALT SPRAY.
2. TEMPERATURE : 35°C
3. CONTROLLED TIME : 48 HOURS
4. METHOD: MIL-STD-1344A, METHOD 1001.1

**TEST CRITERIA:**

1. AFTER THE TEST CONNECTORS SHALL MEET THE REQUIREMENTS OF LOW LEVEL CONTACT RESISTANCE AND MEET REQUIREMENTS OF PRODUCT DRAWING

**TEST RESULT:**

SEE THE ATTACHMENT PAGE

**JUDGE : PASS**

**TEST RESULT:**

unit: m $\Omega$	MIN.	MAX.	AVG.	VISAL
SAMPLE 1	12.63	17.64	15.14	MEET REQUIREMENTS
SAMPLE 2	11.45	18.25	14.85	MEET REQUIREMENTS
SAMPLE 3	11.75	18.96	15.36	MEET REQUIREMENTS
SAMPLE 4	12.39	18.34	15.37	MEET REQUIREMENTS
SAMPLE 5	13.05	18.59	15.82	MEET REQUIREMENTS
SAMPLE 6	13.26	17.95	15.61	MEET REQUIREMENTS
SAMPLE 7	12.64	18.67	15.66	MEET REQUIREMENTS
SAMPLE 8	12.59	19.35	15.97	MEET REQUIREMENTS
SAMPLE 9	12.83	19.26	16.05	MEET REQUIREMENTS
SAMPLE 10	12.67	18.34	15.51	MEET REQUIREMENTS

**JUDGE : PASS**

## Test Report

No.: SZTYR050203923/LP

Date: FEB 24, 2005

Page 1 of 1

DOHO METAL PRODUCTS (DONG GUAN) CO., LTD.  
XI XING JIE, XI HU GONG YE YUAN,  
LIN CUN, TANG XIA ZHEN, DONG GUAN SHI,  
GUANG DONG PROVINCE, CHINA

Report on the submitted sample said to be C5191R

Sample Receiving Date : FEB 21, 2005

Testing Period : FEB 21, 2005 TO FEB 24, 2005

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

Test Method : Lead content - with reference to EPA Method 3050B: 1996 / other acid digestion.  
Cadmium content - with reference to EN1122: 2001 method B / other acid digestion.  
Mercury content - with reference to EPA Method 3052: 1996 / other acid digestion.  
Hexavalent Chromium content - with reference to EPA Method 3060A: 1996 / other wet digestion.  
Analysis was performed by Atomic Absorption Spectrometer (AAS) and Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES).

### Results

	Coppery color metal plate
Lead Content (ppm)	41
Cadmium Content	N.D.
Mercury Content	N.D.
Hexavalent Chromium Content	N.D.

Note: - N.D. = Not Detected (&lt; 2 ppm)

- ppm = mg/kg

- Results shown are of the total weight of dry sample.

\*\*\* End of Report \*\*\*

Signed for and on behalf of  
SGS-CSTC Ltd.

Zhang Yanzheng, Helen  
Section Manager

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SZL 308121

## Test Report

No.: SZTYR050203924/LP

Date: FEB 24, 2005

Page 1 of 1

DOHO METAL PRODUCTS (DONG GUAN) CO., LTD.  
XI XING JIE, XI HU GONG YE YUAN,  
LIN CUN, TANG XIA ZHEN, DONG GUAN SHI,  
GUANG DONG PROVINCE, CHINA

Report on the submitted sample said to be C5210R

Sample Receiving Date : FEB 21, 2005

Testing Period : FEB 21, 2005 TO FEB 24, 2005

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

Test Method : Lead content - with reference to EPA Method 3050B: 1996 / other acid digestion.  
Cadmium content - with reference to EN1122: 2001 method B / other acid digestion.  
Mercury content - with reference to EPA Method 3052: 1996 / other acid digestion.  
Hexavalent Chromium content - with reference to EPA Method 3060A: 1996 / other wet digestion.  
Analysis was performed by Atomic Absorption Spectrometer (AAS) and Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES).

### Results

	<u>Coppery color metal plate</u>
Lead Content (ppm)	69
Cadmium Content	N.D.
Mercury Content	N.D.
Hexavalent Chromium Content	N.D.

Note: - N.D. = Not Detected (&lt; 2 ppm)

- ppm = mg/kg

- Results shown are of the total weight of dry sample.

\*\*\* End of Report \*\*\*

Signed for and on behalf of  
SGS-CSTC Ltd.



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SZL 308120



## Test Report

No. 2011839/EC

Date : Jan 27 2005

Page 1 of 2

HUA CHENG ELECTRONIC FACTORY,  
NO. 1 INDUSTRIAL AREA,  
DA LING ADMINISTRATION,  
HU MEN TOWN,  
DONGGUAN CITY,  
GUANGDONG PROVINCE,  
CHINA

Report on the submitted sample said to be TINED COPPER WIRE.

SGS Job No. : 1892036  
SGS Ref. No. : SZECO050100797EC  
Supplier / Manufacturer : HUA CHENG  
Country of Origin : CHINA  
Country of Destination : CHINA  
Sample Receiving Date : JAN 17 2005  
Testing Period : JAN 18-26 2005

Test Requested : 1) To determine the Cadmium content in the submitted sample.  
2) To determine the Lead content in the submitted sample.  
3) To determine the Mercury content in the submitted sample.  
4) To determine the Hexavalent Chromium content on the submitted sample.  
5) Determination of PBBs (polybrominated biphenyls), PBDEs (Polybrominated diphenylethers) of the submitted sample.

Test Method : 1-3) In-House Method.  
The sample was digested by acid. Analysis was performed by Inductively Coupled Argon Plasma - Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.  
4) As specified in EPA Method 3060A & 7196A.  
The sample was alkaline digested by using EPA Method 3060A, and then analyzed by using Colorimetric method 7196A.  
5) With reference to SGS In-house method. Analysis was performed by GC/MS.

Test Results : 1-5) Please refer to next page.

Signed for and on behalf of  
SGS Hong Kong Ltd

  
Lee Fung Mei, Miranda  
Senior Manager

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H1-15672631

Test Results

Element	Silvery Metal
1) Cadmium (Cd)	< 2 ppm
2) Lead (Pb)	11 ppm
3) Mercury (Hg)	< 2 ppm
4) Hexavalent Chromium (Cr <sup>6+</sup> )	< 2 ppm

(Results shown are of the total weight of samples)

Note : < = Less than  
ppm = mg/kg

Flame Retardants	Silvery Metal	Detection Limit
<b>Polybrominated Biphenyls (PBBs)</b>	---	---
Monobromobiphenyl	ND	5 ppm
Dibromobiphenyl	ND	5 ppm
Tribromobiphenyl	ND	5 ppm
Tetrabromobiphenyl	ND	5 ppm
Pentabromobiphenyl	ND	5 ppm
Hexabromobiphenyl	ND	5 ppm
Heptabromobiphenyl	ND	5 ppm
Octabromobiphenyl	ND	5 ppm
Nonabromobiphenyl	ND	5 ppm
Decabromobiphenyl	ND	5 ppm
<b>Polybrominated Diphenylether (PBDEs)</b>	---	---
Monobromodiphenyl ether	ND	5 ppm
Dibromodiphenyl ether	ND	5 ppm
Tribromodiphenyl ether	ND	5 ppm
Tetrabromodiphenyl ether	ND	5 ppm
Pentabromodiphenyl ether	ND	5 ppm
Hexabromodiphenyl ether	ND	5 ppm
Heptabromodiphenyl ether	ND	5 ppm
Octabromodiphenyl ether	ND	5 ppm
Nonabromodiphenyl ether	ND	5 ppm
Decabromodiphenyl ether	ND	5 ppm

Note: ND = Not Detected  
Non-detected is lower than detection limit value.

\*\*\* End of Report \*\*\*

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H11567262

## Test Report

No.: S7TYR050305035/LP

Date: MAR 05, 2006

Page 1 of 1

HUIZHOU TAIYUAN HARDWARE &  
SOLDERING TIN PRODUCT CO., LTD.  
DONGSHENG VILLAGE INDUSTRIAL AREA,  
PING NAN, SHENG PING ROAD, HUIHU, AN

Report on the submitted sample said to be 无铅焊锡

Sample Receiving Date : MAR 02, 2006  
Testing Period : MAR 02, 2006 TO MAR 04, 2006

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

Test Method : Lead, Cadmium & Mercury content - In-house method.  
Hexavalent Chromium content - with reference to EPA Method 3060A: 1996 / other wet digestion.  
Analysis was performed by Atomic Absorption Spectrometer (AAS) and Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES).

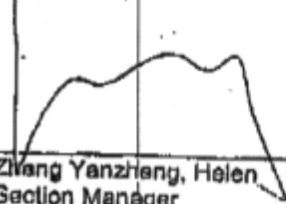
### Results

	Silver color metal block
Lead Content (ppm)	121
Cadmium Content	N.D.
Mercury Content	N.D.
Hexavalent Chromium Content	N.D.

Notes: - N.D. = Not Detected (< 2 ppm)  
- ppm = mg/kg  
- Results shown are of the total weight of dry sample.

\*\*\* End of Report \*\*\*

Signed for and on behalf of  
SGS-CSTC Ltd.



Ziyang Yanzheng, Helen  
Section Manager

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SZL 310180

## Test Report

PROSPERITY DIELECTRICS CO., LTD.  
 NO. 148, CHANG-AN RD., SEC. 1, LU-TSU  
 SHIANG, TAOYUAN, TAIWAN, R. O. C.

Report No. : CE/2004/93330  
 Date : 2004/09/27  
 Page : 1 of 1

The following merchandise was (were) submitted and identified by the client as :

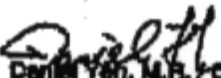
Type of Product : CERAMIC DIELECTRIC MATERIALS  
Style/Item No : Z5U  
Sample Received : 2004/09/17  
Testing Date : 2004/09/17 TO 2004/09/27

### Test Result

PART NAME NO.1 : YELLOW POWDER

Test Item (s)	Unit	Method	MDL	Result			
				No.1			
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	N.D.			
Cadmium (Cd)	ppm	ICP-AES after as per EN 1122, method B:2001 or other acid digestion.	2	N.D.			
Mercury (Hg)	ppm	ICP-AES after as per US EPA 3052 or other acid digestion.	2	N.D.			
Lead (Pb)	ppm	ICP-AES after as per US EPA 3050B or other acid digestion.	2	N.D.			

NOTE: (1) N.D. = Not detected (<MDL)  
 (2) ppm = mg/kg  
 (3) MDL = Method Detection Limit

  
 Daniel Yen, M.P., Operation Manager  
 Signed for and on behalf of  
 SGS TAIWAN LTD.

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## Test Report

No.: GZSCR050418521/LP-2

Date: APR 08, 2005

Page 1 of 2

DONGGUAN DAEJOO ELECTRONIC MATERIAL CO., LTD  
 XIANYONG INDUSTRIAL ZONE WANJIANG  
 DISTRICT DONGGUAN GUANGDONG CHINA

Report on the submitted sample said to be P-COAT CP-930-2 DBL-LM

SGS Ref No. : SZ050405348EC  
 Buyer : SONY  
 Sample Receiving Date : APR 04, 2005  
 Testing Period : APR 04, 2005 TO APR 08, 2005

Test Requested : (1) As specified by client, to determine the Lead, Cadmium, Mercury & Hexavalent Chromium content in the submitted sample.  
 (2) Determination of PBBs (polybrominated biphenyls), PBDEs (Polybrominated diphenylethers) of the submitted sample.

Test Method : (1) Lead content - with reference to EPA method 3050B: 1996.  
 Cadmium content - with reference to BS EN1122: 2001 method B.  
 Mercury content - with reference to EPA 3052: 1996.  
 Hexavalent Chromium content - with reference to EPA 3060A & EPA 7196A.  
 Analysis was performed by Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES) / UV-VIS Spectrophotometer.  
 (2) With reference to SGS in-house method. Analysis was performed by GC/MS.

RESULTS : Please refer to next page.

Signed for and on behalf of  
 SGS-CSTC Ltd.

  
 He Xiaoyan, Jane  
 Tech. Manager

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GZCM228014



涂料 2 of 2

# Test Report

No.: GZSCR050418521/LP-2

Date: APR 08, 2005

Page 2 of 2

## Results :

(1)

### Blue powder

Lead Content (Pb) N.D.  
 Cadmium Content (Cd) N.D.  
 Mercury Content (Hg) N.D.  
 Hexavalent Chromium Content [Cr(VI)] N.D.

Note : - N.D. = Not Detected (< 2 ppm)  
 - ppm = mg/kg

(2)

Flame Retardants	Blue powder	Detection Limit (ppm)
<b>Polybrominated Biphenyls (PBBs)</b>		
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
Nonabromodiphenyl	N.D.	5
Decabromodiphenyl	N.D.	5
<b>Polybrominated Diphenylether (PBDEs)</b>		
Monobromodiphenyl ether	N.D.	5
Dibromodiphenyl ether	N.D.	5
Tribromodiphenyl ether	N.D.	5
Tetrabromodiphenyl ether	N.D.	5
Pentabromodiphenyl ether	N.D.	5
Hexabromodiphenyl ether	N.D.	5
Heptabromodiphenyl ether	N.D.	5
Octabromodiphenyl ether	N.D.	5
Nonabromodiphenyl ether	N.D.	5
Decabromodiphenyl ether	N.D.	5

Note : - N.D. = Not Detected (< 5 ppm)  
 - ppm = mg/kg

\*\*\* End of Report \*\*\*

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GZCM 228013

SGS-CSTC Standards Technical Services Co., Ltd.  
 Guangzhou Branch-Chemical Laboratory

4/F, Block B, Yu Jing Industrial Park, Ling Shan Road, Zhu Cun Dong Pu Area, Tianhe District, Guangzhou, China 510660  
 中国·广州·天河区东圃珠村灵山路裕景工业园八栋四楼 邮编:510660

Member of SGS Group (Société Générale de Surveillance)

## Test Report

No. SH514949/CHEM

Date: 3.28.2005

Page 1 of 2

DSM ENGINEERING PLASTICS JIANGSU  
ZHOUZHUANG JIANGYIN, JIANGSU

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

Sample Name : TE250F6 BLACK  
SGS Ref No. : SHEC0050305485  
Lot No. : AJ100308Sample Receiving Date : March 21, 2005  
Testing Period : March 21 to March 28, 2005Test Requested : 1) To determine the Cadmium Content of the submitted sample.  
2) To determine the Lead content of the submitted sample.  
3) To determine Mercury Content of the submitted sample.  
4) To determine Hexavalent Chromium content of the submitted sample.  
5) To determine the PBBs(Polybrominated biphenyls) PBBEs(PBDEs)  
(Polybrominated biphenyl ethers) Content of the submitted sample.  
6) To determine the PCBs(Polychlorinated Biphenyls) Content of the submitted sample.Test method : 1) With reference to BS EN 1122:2001, Method B.  
Analysis was performed by Inductively Coupled Argon Plasma – Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.  
2) With reference to US EPA Method 3050B.  
Analysis was performed by Inductively Coupled Argon Plasma – Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.  
3) With reference to US EPA 3052.  
Analysis was performed by Inductively Coupled Argon Plasma – Atomic Emission Spectrometry (ICP-AES).  
4) With reference to US EPA3060A and US EPA7196A  
Analysis was performed by UV-VIS Spectrometric method.  
5) With reference to US EPA 8081, Analysis was performed by GC/MS.  
6) With reference to US EPA 8082, Analysis was performed by GC/MS.

Test Results : Please refer to next page

Signed for and on behalf of  
SGS-CSTC Chemical Laboratory  
Ella Zhang  
SupervisorThis Test Report is issued by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also available upon request or are accessible at [www.sgs.com](http://www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional policies defined therein. The results shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained for 30 days only. This Test Report shall not be reproduced except in full, without written approval of the Company.

SHCH 229070

## Test Report

No. SH514949/CHEM

Date: 3.28.2005

Page 2 of 2

### Test Results

No.	Item	Unit	MDL	A
1	Cadmium (Cd)	ppm	2	N.D.
2	Lead (Pb)	ppm	2	42
3	Mercury (Hg)	ppm	2	N.D.
4	Hexavalent Chromium (Cr VI)	ppm	2	N.D.
5	PBBs(Polybrominated biphenyls)	---	---	---
	PBBs(Bromobiphenyl)	ppm	5	N.D.
	PBBs(Dibromobiphenyl)	ppm	5	N.D.
	PBBs(Tribromobiphenyl)	ppm	5	N.D.
	PBBs(Tetrabromobiphenyl)	ppm	5	N.D.
	PBBs(Pentabromobiphenyl)	ppm	5	N.D.
	PBBs(Hexabromobiphenyl)	ppm	5	N.D.
	PBBs(Heptabromobiphenyl)	ppm	5	N.D.
	PBBs(Octabromobiphenyl)	ppm	5	N.D.
	PBBs(Nonabromobiphenyl)	ppm	5	N.D.
	PBBs(Polybrominated biphenyls)	ppm	5	N.D.
	PBBEs(PBDEs)(Polybrominated biphenyl ethers)	---	---	---
	PBBEs(PBDEs)(Monobromobiphenyl ether)	ppm	5	N.D.
	PBBEs(PBDEs)(Dibromobiphenyl ether)	ppm	5	N.D.
	PBBEs(PBDEs)(Tribromobiphenyl ether)	ppm	5	N.D.
	PBBEs(PBDEs)(Tetrabromobiphenyl ether)	ppm	5	N.D.
	PBBEs(PBDEs)(Pentabromobiphenyl ether)	ppm	5	N.D.
	PBBEs(PBDEs)(Hexabromobiphenyl ether)	ppm	5	N.D.
	PBBEs(PBDEs)(Heptabromobiphenyl ether)	ppm	5	N.D.
	PBBEs(PBDEs)(Octabromobiphenyl ether)	ppm	5	N.D.
PBBEs(PBDEs)(Nonabromobiphenyl ether)	ppm	5	N.D.	
PBBEs(PBDEs)(Decabromobiphenyl ether)	ppm	5	N.D.	
6	PCBs(Polychlorinated Biphenyls)	ppm	0.5	N.D.

(Result shown is of the total weight of sample)

#### Sample Description:

A. Black plastic pellet

Note : ppm=mg/kg

MDL= Method Detection Limit

N.D. = Not detected.(<MDL)

\*\*\* End of Report \*\*\*

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SHCH 229069





2380

# Test Report

No.: GZSCR050315144/LP

Date: APR 12, 2005

Page 1 of 2

WEG FERRITE CHINA CO., LTD.  
ER HENG ROAD, HENG JIAO, SHI JIE TOWN,  
DONGGUAN, GUANGDONG, P.R.C

Report on the submitted sample said to be SOFT FERRITE TORIODE CORE

SGS Ref No. : SZ050304299EC-4.4  
 Buyer : SK OF JAPAN  
 Item No. : CS5 (NEW NAME CS5A)  
 Sample Receiving Date : MAR 22, 2005  
 Testing Period : MAR 22, 2005 TO APR 12, 2005

Test Requested : (1) As specified by client, to determine the Lead, Cadmium, Mercury & Hexavalent Chromium content in the submitted sample.  
 (2) Determination of PBBs (polybrominated biphenyls), PBDEs (Polybrominated diphenylethers) of the submitted sample.

Test Method : (1) Lead content - In house method, with reference to EPA method 3050B: 1996.  
 Cadmium content - In house method, with reference to BS EN1122: 2001 method B.  
 Mercury content - In house method, with reference to EPA 3052: 1996.  
 Hexavalent Chromium content - with reference to EPA 3060A & EPA 7196A.  
 Analysis was performed by Atomic Absorption Spectrometer and Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES) / UV-VIS Spectrophotometer.  
 (2) With reference to SGS in-house method. Analysis was performed by GC/MS.

RESULTS : Please refer to next page.

Signed for and on behalf of  
SGS-CSTC Ltd.

Zhang Li, Amy  
Sr. Engineer

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GZCWI 239321



# Test Report

No.: GZSCR050315144/LP

Date: APR 12, 2005

Page 2 of 2

Results :

(1)

"Ferrite core"

Lead Content (Pb) (ppm)  
 Cadmium Content (Cd)  
 Mercury Content (Hg)  
 Hexavalent Chromium Content [Cr(VI)]

24  
 N.D.  
 N.D.  
 N.D.

Note : - N.D. = Not Detected (< 2 ppm)  
 - ppm = mg/kg

(2)

	"Ferrite core"	Detection Limit (ppm)
Flame Retardants		
Polybrominated Biphenyls (PBBs)		
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
Nonabromodiphenyl	N.D.	5
Decabromodiphenyl	N.D.	5
Polybrominated Diphenylether (PBDEs)		
Monobromodiphenyl ether	N.D.	5
Dibromodiphenyl ether	N.D.	5
Tribromodiphenyl ether	N.D.	5
Tetrabromodiphenyl ether	N.D.	5
Pentabromodiphenyl ether	N.D.	5
Hexabromodiphenyl ether	N.D.	5
Heptabromodiphenyl ether	N.D.	5
Octabromodiphenyl ether	N.D.	5
Nonabromodiphenyl ether	N.D.	5
Decabromodiphenyl ether	N.D.	5

Note : - N.D. = Not Detected (< 5 ppm)  
 - ppm = mg/kg

\*\*\* End of Report \*\*\*

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GZCR 23932



# Test Report

No.: GZSCR050315141/LP

Date: MAR 28, 2005

Page 1 of 2

WEG FERRITE CHINA CO., LTD.  
HE R HENG ROAD, HENG JIAO, SHI JIE TOWN,  
DONGGUAN, GUANGDONG, P R.C

Report on the submitted sample said to be SOFT FERRITE TORIOD CORE

SGS Ref No. : SZ050304299EC-4.1  
Buyer : SK OF JAPAN  
Manufacture : KS9 (NEW NAME KMVC7)  
Sample Receiving Date : MAR 22, 2005  
Testing Period : MAR 22, 2005 TO MAR 25, 2005

Test Requested : (1) As specified by client, to determine the Lead, Cadmium, Mercury & Hexavalent Chromium content in the submitted sample.  
(2) Determination of PBBs (polybrominated biphenyls), PBDEs (Polybrominated diphenylethers) of the submitted sample.

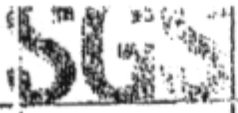
Test Method : (1) Lead content - In house method, with reference to EPA method 3050B: 1996.  
Cadmium content - In house method, with reference to BS EN1122: 2001 method B.  
Mercury content - In house method, with reference to EPA 3052: 1996.  
Hexavalent Chromium content - with reference to EPA 3060A & EPA 7196A.  
Analysis was performed by Atomic Absorption Spectrometer and Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES) / UV-VIS Spectrophotometer.  
(2) With reference to SGS in-house method. Analysis was performed by GC/MS.

RESULTS : Please refer to next page

Signed for and on behalf of  
SGS-CSTC Ltd

Zhang Li Amy  
Sr Engineer

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# Test Report

No.: GZSCR050315141/LP

Date: MAR 28, 2005

Page 2 of 2

## Results:

(1)

\* Ferrite core \*

Lead Content (Pb) (ppm)	41
Cadmium Content (Cd)	N.D.
Mercury Content (Hg)	N.D.
Hexavalent Chromium Content [Cr(VI)]	N.D.

Note : - N.D. = Not Detected (< 2 ppm)  
 - ppm = mg/kg

(2)

Flame Retardants	* Ferrite core *	Detection Limit (ppm)
<b>Polybrominated Biphenyls (PBBs)</b>		
Monobromobiphenyl	N.D.	5
Dibromobiphenyl	N.D.	5
Tri bromobiphenyl	N.D.	5
Tetrabromobiphenyl	N.D.	5
Pentabromobiphenyl	N.D.	5
Hexabromobiphenyl	N.D.	5
Heptabromobiphenyl	N.D.	5
Octabromobiphenyl	N.D.	5
Nonabromodiphenyl	N.D.	5
Decabromodiphenyl	N.D.	5
<b>Polybrominated Diphenylether (PBDEs)</b>		
Monobromodiphenyl ether	N.D.	5
Dibromodiphenyl ether	N.D.	5
Tri bromodiphenyl ether	N.D.	5
Tetrabromodiphenyl ether	N.D.	5
Pentabromodiphenyl ether	N.D.	5
Hexabromodiphenyl ether	N.D.	5
Heptabromodiphenyl ether	N.D.	5
Octabromodiphenyl ether	N.D.	5
Nonabromodiphenyl ether	N.D.	5
Decabromodiphenyl ether	N.D.	5

Note : - N.D. = Not Detected (< 5 ppm)  
 - ppm = mg/kg

\*\*\* End of Report \*\*\*

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## Test Report

No.: GZSCR05J315143/LP

Date MAR 28, 2005

Page 1 of 2

WEG FERRITE CHINA CO., LTD  
 ER HENG ROAD, HENG JIAO SHI JIE TOWN,  
 DONGGUAN, GUANGDONG, P.R.C

Report on the submitted sample said to be SOFT FERRITE TOROID CORE

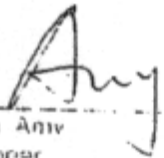
SGS Ref No. : SZ050304299EC-4.3  
 Buyer : SK OF JAPAN  
 Item No. : CS10 (NEW NAME CS10B)  
 Sample Receiving Date : MAR 22, 2005  
 Testing Period : MAR 22, 2005 TO MAR 25, 2005

Test Requested : (1) As specified by client to determine the Lead, Cadmium, Mercury & Hexavalent Chromium content in the submitted sample.  
 (2) Determination of PBBs (polybrominated biphenyls), PBDEs (Polybrominated diphenylethers) of the submitted sample.

Test Method : (1) Lead content - In house method, with reference to EPA method 3050B: 1996.  
 Cadmium content - In house method, with reference to BS EN1122: 2001 method B.  
 Mercury content - In house method, with reference to EPA 3052: 1996.  
 Hexavalent Chromium content - with reference to EPA 3060A & EPA 7196A.  
 Analysis was performed by Atomic Absorption Spectrometer and Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES) / UV-VIS Spectrophotometer  
 (2) With reference to SGS in-house method. Analysis was performed by GC/MS.

RESULTS : Please refer to next page.

Signed for and on behalf of  
 SGS-CSTC Ltd.

  
 Zhang Li Aniv  
 Sr Engineer

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**Test Report**

No.: GZSCR050315143/LP

Date: MAR 28, 2005

Page 2 of 2

Results :

(1)

Lead Content (Pb) (ppm)  
 Cadmium Content (Cd)  
 Mercury Content (Hg)  
 Hexavalent Chromium Content [Cr(VI)]

"Ferrite core"

19  
 N.D.  
 N.D.  
 N.D.

Note : - N.D. = Not Detected (< 2 ppm)  
 - ppm = mg/kg

(2)

Flame Retardants	"Ferrite core"	Detection Limit (ppm)
<b>Polybrominated Biphenyls (PBBs)</b>		
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
Nonabromodiphenyl	N.D.	5
Decabromodiphenyl	N.D.	5
<b>Polybrominated Diphenylether (PBDEs)</b>		
Monobromodiphenyl ether	N.D.	5
Dibromodiphenyl ether	N.D.	5
Tribromodiphenyl ether	N.D.	5
Tetrabromodiphenyl ether	N.D.	5
Pentabromodiphenyl ether	N.D.	5
Hexabromodiphenyl ether	N.D.	5
Heptabromodiphenyl ether	N.D.	5
Octabromodiphenyl ether	N.D.	5
Nonabromodiphenyl ether	N.D.	5
Decabromodiphenyl ether	N.D.	5

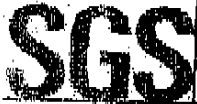
Note : - N.D. = Not Detected (< 5 ppm)  
 - ppm = mg/kg

\*\*\* End of Report \*\*\*

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To: 陈莉

From: 蔡杨 袁4页



Test Report

No.: GZSCR060967865/LP

Date: SEP 12, 2005

Page 1 of 4

GRANT GLORY ELECTRONIC (SHENZHEN) CO., LTD.  
JIN YUAN IND HEAD TZUN HENG GANG TOWN, LONG GANG AREA, SHENZHEN CITY  
GUANGDONG PROVINCE, P.R.C

Report on the submitted sample said to be LED(发光二极管)


SGS Ref No. : GZ0509119445C  
Buyer : SONY  
Sample Receiving Date : SEP 06, 2005  
Testing Period : SEP 06, 2005 TO SEP 12, 2005

Test Requested : (1) As specified by client, sample 1 & 2: to determine the Lead, Cadmium, Mercury & Hexavalent Chromium content in the submitted sample.  
(2) Sample 1: Determination of PBBs (polybrominated biphenyls), PBDEs (Polybrominated diphenylethers) of the submitted sample.

Test method : (1) Cadmium content: With reference to BS EN 1122:2001 Method B see flowchart (1).  
Lead content: Ashing after wet decomposition, see flowchart (2).  
Mercury content - With reference to EPA 3052: 1996.  
Hexavalent Chromium content - with reference to EPA 3080A: 1996 & EPA 7196A: 1992.  
Analysis was performed by Atomic Absorption Spectrometer and Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES) / UV-VIS Spectrophotometer.  
(2) With reference to EPA 3540C / 3550C. Analysis was performed by GC/MS.

Results : Please refer to next page.

Signed for and on behalf of  
SGS-CSTC Ltd.

  
Zhang Li, Amy  
Sr. Engineer

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**Test Report**

No.: GZSCR050967665/LP

Date: SEP-12, 2005

Page 2 of 4

**Results:**

(1)	No.1	No.2
Lead Content (Pb) (ppm)	3	N.D.
Cadmium Content (Cd)	N.D.	N.D.
Mercury Content (Hg)	N.D.	N.D.
Hexavalent Chromium Content [Cr(VI)]	N.D.	N.D.

Note: - N.D. = Not Detected (< 2 ppm)  
 - ppm = mg/kg

(2)

Flame Retardants	No.1
Monobromobiphenyl	N.D.
Dibromobiphenyl	N.D.
Tribromobiphenyl	N.D.
Tetrabromobiphenyl	N.D.
Pentabromobiphenyl	N.D.
Hexabromobiphenyl	N.D.
Heptabromobiphenyl	N.D.
Octabromobiphenyl	N.D.
Nonabromobiphenyl	N.D.
Decabromobiphenyl	N.D.
Monobromodiphenyl ether	N.D.
Dibromodiphenyl ether	N.D.
Tribromodiphenyl ether	N.D.
Tetrabromodiphenyl ether	N.D.
Pentabromodiphenyl ether	N.D.
Hexabromodiphenyl ether	N.D.
Heptabromodiphenyl ether	N.D.
Octabromodiphenyl ether	N.D.
Nonabromodiphenyl ether	N.D.
Decabromodiphenyl ether	N.D.

Note: - N.D. = Not Detected (< 5 ppm)  
 - ppm = mg/kg

**Specimen Description:**

No.1 Green transparent plastic part  
 No.2 Silvery metal pin

\*\*\* End of Report \*\*\*

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# Test Report

No.: GZSCR011246136/LP

Date: DEC 08, 2004

Page 1 of 2

MASON TECHNOLOGY CO., LTD  
64D BLD MA SHAN TOW 4<sup>TH</sup> INDUSTRY ZONE,  
GONGMING TOWN, BAOAN DISTRICT SHENZHEN CITY, CHINA

Report on the submitted sample said to be LED 发光二极管

SGS Ref No. : G7041106712FC  
Sample Receiving Date : DEC 07, 2004  
Testing Period : DEC 07, 2004 TO DEC 08, 2004

Test Requested : (1) Sample 1-2 :As specified by client, to determine the Lead, Cadmium, Mercury & Hexavalent Chromium content in the submitted sample.  
(2) Sample 2: Determination of PBBs (polybrominated biphenyls), PBDEs (Polybrominated diphenylethers) of the submitted sample.

Test Method : (1) Sample 1:  
Lead content - In house method, with reference to EPA method 3050B: 1996.  
Cadmium content - In house method, with reference to BS EN1122: 2001 method B.  
Mercury content - In house method, with reference to EPA 3052: 1996.  
Hexavalent Chromium content - with reference to EPA 3060A & EPA 7196A.  
Sample 2:  
Lead content - with reference to EPA method 3050B: 1996.  
Cadmium content - with reference to BS EN1122: 2001 method B.  
Mercury content - with reference to EPA 3052: 1996.  
Hexavalent Chromium content - with reference to EPA 3060A & EPA 7196A.  
Analysis was performed by Atomic Absorption Spectrometer and Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES) / UV-VIS Spectrophotometer.  
(2) Sample 2: With reference to SGS in-house method. Analysis was performed by GC/MS.

RESULTS Please refer to next page.

Signed for and on behalf of  
SGS-CSTC Ltd

Xie Yongbiao, Sam  
Lab Manager

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GZCM 179424

SGS (Shenzhen) Industrial Park, Longhua Suburb, Shenzhen, Guangdong Province, China  
中国深圳龙岗平湖工业园长圳路新成工业大厦四楼 邮编: 518400  
TEL: 26921885 1-86-755-218858 www.china@sgs.com

Member of SGS Group (Société Générale de Surveillance)

**SGS****Test Report**

No.: GZ/SCH041246136/LP

Date: DEC 08, 2004

Page 2 of 2

Results:

(1)

	No.1	No.2
Lead Content (Pb)	N.D.	N.D.
Cadmium Content (Cd)	N.D.	N.D.
Mercury Content (Hg)	N.D.	N.D.
Hexavalent Chromium Content [Cr(VI)]	N.D.	N.D.

Note: - N.D. = Not Detected (&lt; 2 ppm)

- ppm = mg/kg

(2)

Flame Retardants	No.2	Detection Limit (ppm)
<b>Polybrominated Biphenyls (PBBs)</b>		
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
Nonabromodiphenyl	N.D.	5
Decabromodiphenyl	N.D.	5
<b>Polybrominated Diphenylether (PBDEs)</b>		
Monobromodiphenyl ether	N.D.	5
Dibromodiphenyl ether	N.D.	5
Tribromodiphenyl ether	N.D.	5
Tetrabromodiphenyl ether	N.D.	5
Pentabromodiphenyl ether	N.D.	5
Hexabromodiphenyl ether	N.D.	5
Heptabromodiphenyl ether	N.D.	5
Octabromodiphenyl ether	N.D.	5
Nonabromodiphenyl ether	N.D.	5
Decabromodiphenyl ether	N.D.	5

**Specimen Description**

No 1 Silvery metal part

No 2 Yellow translucent plastic block

Note: - N.D. = Not Detected (&lt; 5 ppm)

ppm = mg/kg

\*\*\* End of Report \*\*\*

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GZCM 179360

42F, Block 8, Ye Jiao Industrial Park, Ling Shan Road, Zhu Cui Dong, Fu Lu, Hechi District, Guangxi, China 540000 t(86-20)82189300 f(86-20)82189528 www.sgs.com  
 中国·广州·天河区东圃珠村灵山路裕泰工业园八栋42F 邮编:510880 t(86-20)82189300 f(86-20)82189528 sgs-china@sgs.com

Member of SGS Group (Société Générale de Surveillance)



# Test Report

長年 PL.

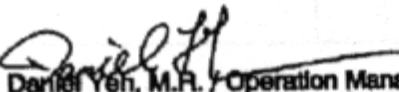
IDEMITSU KOSAN CO., LTD.  
1-1, ANEGASAKI-KAIGAN, ICHIHARA-CITY, CHIBA  
PREF, 299-0193, JAPAN

Report No. : CE/2004/C0547  
Date : 2004/12/10  
Page : 1 of 3

The following merchandise was (were) submitted and identified by the client as :

Type of Product : POLYCARBONATE  
Style/Item No : IRY2200  
Sample Received : 2004/12/03  
Testing Date : 2004/12/03 TO 2004/12/10

-----  
Test Result : - Please see the next page -

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

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# Test Report

IDEMITSU KOSAN CO., LTD.  
 1-1, ANEGASAKI-KAIGAN, ICHIHARA-CITY, CHIBA  
 PREF, 299-0193, JAPAN

Report No. : CE/2004/C0547  
 Date : 2004/12/10  
 Page : 2 of 3

## Test Result

PART NAME NO.1 : TRANSPARENT PLASTIC PELLETS  
 (PLEASE REFER TO THE PHOTO ATTACHED)

Test Item (s):	Unit	Method	MDL	Result			
				No.1			
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	N.D.			
Cadmium (Cd)	ppm	ICP-AES after as per EN 1122, method B:2001 or other acid digestion.	2	N.D.			
Mercury (Hg)	ppm	ICP-AES after as per US EPA 3052 or other acid digestion.	2	N.D.			
Lead (Pb)	ppm	ICP-AES after as per US EPA 3050B or other acid digestion.	2	N.D.			

Test Item (s):	Unit	Method	MDL	Result			
				No.1			
PBBs(Polybrominated biphenyls)(CAS NO:059536-65-1)	%	With reference to USEPA3540 or USEPA3550. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.			
PBBEs(PBDEs)(Polybrominated biphenyl ethers)	%	With reference to USEPA3540 or USEPA3550. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.			

- NOTE: (1) N.D. = Not detected (<MDL)  
 (2) ppm = mg/kg  
 (3) MDL = Method Detection Limit

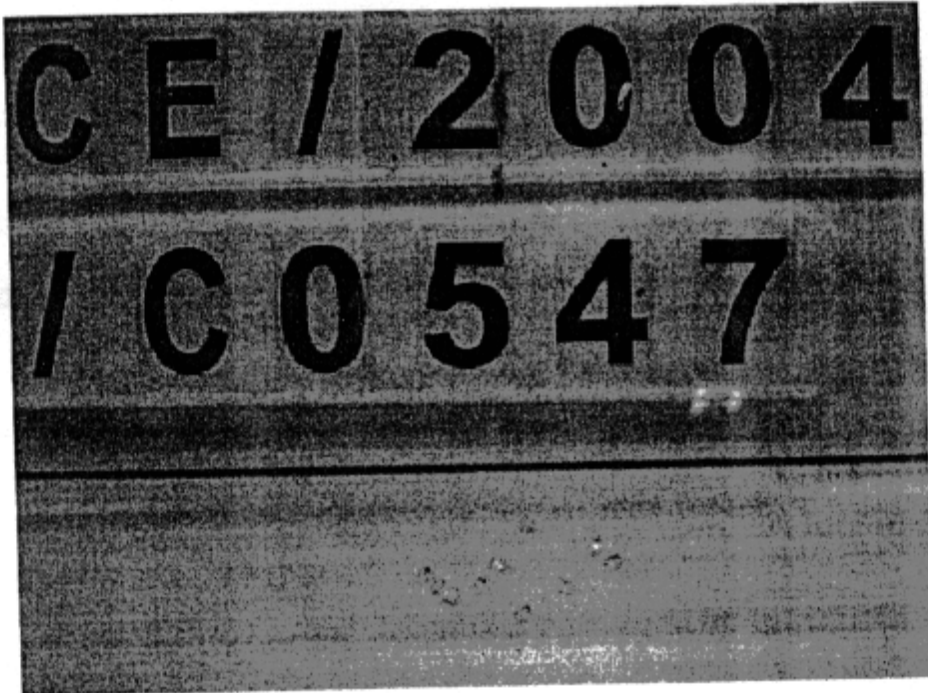
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# SGS

## Test Report

IDEMITSU KOSAN CO., LTD.  
1-1, ANEGASAKI-KAIGAN, ICHIHARA-CITY, CHIBA  
PREF, 299-0193, JAPAN

Report No. : CE/2004/C0547  
Date : 2004/12/10  
Page : 3 of 3



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SGS TAIWAN LIMITED

NO. 136-1, Wu Kung Road, WuKu Industrial Zone, Taipei county, Taiwan.  
(886-2) 22993939 (886-2) 2299-3237 www.sgs.com.tw

1/21/05



Handwritten signature

Test Report

No. SH507574/CHEM

Date: 2.17.2005

INTERNATIONAL LAMINATE MATERIAL LTD  
63# TIAO STREAM NORTH ROAD LIN'AN, ZHEJIANG P.R CHINA

Handwritten signature

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

Sample Name : COPPER CLAD LAMINATE  
SGS Ref No. : SHEC0050202739  
Model : FR-4  
Lot No : 501001  
Material : EPOXY RESIN, GLASS FABRIC, COPPER FOIL

Sample Receiving Date : February 06,2005  
Testing Period : February 06 to February 17,2005

Test Requested : 1) To determine the Cadmium Content of the submitted sample.  
2) To determine the Lead content of the submitted sample.  
3) To determine Mercury Content of the submitted sample.  
4) To determine Hexavalent Chromium content of the submitted sample.  
5) To determine the PBBs(Polybrominated biphenyls) PBDEs(PBDEs) (Polybrominated biphenyl ethers) Content of the submitted sample.

Test method : 1) With reference to BS EN 1122:2001, Method B or other acid digestion. Analysis was performed by Inductively Coupled Argon Plasma - Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.  
2) With reference to US EPA Method 3050B or other acid digestion. Analysis was performed by Inductively Coupled Argon Plasma - Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.  
3) With reference to US EPA 3062 or other acid digestion. Analysis was performed by Inductively Coupled Argon Plasma - Atomic Emission Spectrometry (ICP-AES).  
4) With reference to US EPA3060A and US EPA7196A Analysis was performed by UV-VIS Spectrometric method.  
5) With reference to US EPA 8061, Analysis was performed by GC/MS.

Test Results : Please refer to next page

Signed for and on behalf of  
SGS-CSTC Chemical Laboratory

Signature  
Ella Zhang  
Supervisor



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SHCH 2173

8-MAR-2005 09:56 FROM:

TO: 20019707741083514000 P:2

**SGS***Handwritten signature**Handwritten signature***Test Report**

No. SH507574/CHEM

Date: 2.17.2005

Page 2 of 2

**Test Results**

No.	Item	Unit	MDL	A
1	Cadmium (Cd)	ppm	2	N.D.
2	Lead (Pb)	ppm	2	N.D.
3	Mercury (Hg)	ppm	2	N.D.
4	Hexavalent Chromium (Cr VI)	ppm	2	N.D.
5	PBBs(Polybrominated biphenyls)	---	---	---
	PBBs(Bromobiphenyl)	ppm	5	N.D.
	PBBs(Dibromobiphenyl)	ppm	5	N.D.
	PBBs(Tribromobiphenyl)	ppm	5	N.D.
	PBBs(Tetrabromobiphenyl)	ppm	5	N.D.
	PBBs(Pentabromobiphenyl)	ppm	5	N.D.
	PBBs(Hexabromobiphenyl)	ppm	5	N.D.
	PBBs(Heptabromobiphenyl)	ppm	5	N.D.
	PBBs(Octabromobiphenyl)	ppm	5	N.D.
	PBBs(Nonabromobiphenyl)	ppm	5	N.D.
	PBBs(Polybrominated biphenyls)	ppm	5	N.D.
	PBBEs(PBDEs)(Polybrominated biphenyl ethers)	---	---	---
	PBBEs(PBDEs)(Monobromobiphenyl ether)	ppm	5	N.D.
	PBBEs(PBDEs)(Dibromobiphenyl ether)	ppm	5	N.D.
	PBBEs(PBDEs)(Tribromobiphenyl ether)	ppm	5	N.D.
	PBBEs(PBDEs)(Tetrabromobiphenyl ether)	ppm	5	N.D.
	PBBEs(PBDEs)(Pentabromobiphenyl ether)	ppm	5	N.D.
	PBBEs(PBDEs)(Hexabromobiphenyl ether)	ppm	5	N.D.
	PBBEs(PBDEs)(Heptabromobiphenyl ether)	ppm	5	N.D.
	PBBEs(PBDEs)(Octabromobiphenyl ether)	ppm	5	N.D.
PBBEs(PBDEs)(Nonabromobiphenyl ether)	ppm	5	N.D.	
PBBEs(PBDEs)(Decabromobiphenyl ether)	ppm	5	N.D.	

(Result shown is of the total weight of sample)

**Sample Description:**

A. Copper clad laminate

Note : ppm=mg/kg

MDL= Method Detection Limit

N.D. = Not detected.( &lt;MDL)

\*\*\* End of Report \*\*\*

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8HCH 217376



加太知

# Test Report

No. GZSCR401141039/LP

Date: NOV 12, 2004

Page 1 of 2

GUANGZHOU TAIHE PRINTED CIRCUIT BOARD FACTORY  
22# YI HUAN ROAD, TAIHE TOWN, BAIYUN DISTRICT,  
GUANGZHOU, CHINA

Report on the submitted sample said to be I: METAL-CLAD BASE MATERIAL  
II: LIQUID PHOTO SENSITIVE RESIST III: ENTEK PLUS Cu1096A

SGS Ref No. : SZ041113177EC

Item No. : I: A03081S; A03081I; A03081K II: M05300G; M051800  
III: ENTEK PLUS CU106A

Sample Receiving Date : NOV 08, 2004

Testing Period : NOV 08, 2004 TO NOV 12, 2004

Test Requested : (1) As specified by client, to determine the Mercury & Chromium content in the submitted sample.  
(2) Determination of PBBs (polybrominated biphenyls), PBDEs (Polybrominated diphenylethers) of the submitted sample.

Test Method : (1) Mercury & Chromium content - with reference to EPA 3052: 1996. Analysis was performed by Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES) / UV-VIS Spectrophotometer.  
(2) With reference to SGS in-house method. Analysis was performed by GC/MS.

RESULTS : Please refer to next page.

Signed for and on behalf of  
SGS-CSTC Ltd.

Xie YongBiao, Sam  
Lab Manager

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## Test Report

No.: GZSCR401141039/LP

Date: NOV 12, 2004

Page 2 of 2

Results :

(1)	No.1	No.2	No.3	No.4	No.5	No.6
Mercury Content (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium Content (Cr)(ppm)	25	14	20	N.D.	N.D.	23

Note : - N.D. = Not Detected (< 2 ppm)  
 - ppm = mg/kg

(2)

Flame Retardants	No.1	No.2	No.3	No.4	No.5	No.6	Detection Limit (ppm)
<b>Polybrominated Biphenyls (PBBs)</b>	-----	-----	-----	-----	-----	-----	-----
Monobromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5
Dibromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5
Tribromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5
Tetrabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5
Pentabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5
Hexabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5
Heptabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5
Octabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5
Nonabromodiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5
Decabromodiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5
<b>Polybrominated Diphenylether (PBDEs)</b>							
Monobromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5
Dibromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5
Tribromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5
Tetrabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5
Pentabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5
Hexabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5
Heptabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5
Octabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5
Nonabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5
Decabromodiphenyl ether	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5

Note : - N.D. = Not Detected (< 5 ppm)  
 - ppm = mg/kg

Sample Description:

- No.1 Coppery sheet (A03081S)
- No.2 Coppery sheet (A03081I) } 板料
- No.3 Coppery sheet (03081K) }
- No.4 Green liquid (M05300G) } 油墨
- No.5 Green liquid (M051800) }
- No.6 Coppery sheet (Entek plus Cu 106A) } 23P

\*\*\* End of Report \*\*\*

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丁世和

# Test Report

SIWAN TAIYO INK CO., LTD.  
107 TA TUNG SECOND RD. KUAN-YIN  
INDUSTRY PARK TAOYUAN TAIWAN, R.O.C.

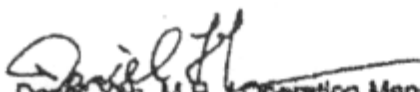
Report No. : CE/2004/81867  
Date : 2004/08/20  
Page : 1 of 2

The following merchandise was (were) submitted and identified by the client as :

113

<u>Type of Product</u>	: S-411WA
<u>Sample No</u>	: THERMALLY CURABLE MARKING INK
<u>Sample Received</u>	: 2004/08/16
<u>Testing Date</u>	: 2004/08/16 TO 2004/08/20

Test Result : - Please see the next page -

  
 Denis Yeh, M.P., Operation Manager  
 Signed for and on behalf of  
 SGS TAIWAN LTD.

Report is issued by the Company's Agent in its General Conditions of Service printed hereon. Attention is drawn to the limitations of liability, indemnification, and other issues defined therein. The results shown in this report refer only to the sample tested unless otherwise stated. This Test Report cannot be used for any other purpose without the written permission of the Company. 本報告係由本公司之代理人在其服務條件中印出。請注意其中關於責任限制、賠償及其他問題之規定。本報告之結果僅指所測試之樣品而言，除非另有說明。此份測試報告不得用於任何其他目的，未經本公司書面許可不得作為其他用途。 本公司地址：台灣桃園縣中壢市大興路107號 電話：(886)3-2721111 傳真：(886)3-2721112 郵政信箱：SGS-101101



Handwritten signature or initials

# Test Report

SHWAN TAIYO INK CO., LTD.  
D.7 TA TUNG SECOND RD. KUAN-YIN  
DUSTRY PARK,TAOYUAN TAIWAN, R.O.C.

Report No. : CE/2004/81867  
Date : 2004/08/20  
Page : 2 of 2

Handwritten number 215

## Test Result

ART NAME NO.1 : WHITE INK

Test Item (s):	Unit	Method	MDL	Result				
				No.1				
Pb(Polybrominated phenyls)(CAS 67774-32-7)	%	With reference to USEPA3540 or USEPA3550. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC and 76/769/EEC)	0.0005	N.D.				
PBDEs(Polybrominated biphenyl ethers)	%	With reference to USEPA3540 or USEPA3550. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC and 76/769/EEC)	0.0005	N.D.				

- NOTE: (1) N.D. = Not detected (<MDL)  
 (2) ppm = mg/kg  
 (3) MDL = Method Detection Limit



于太知

# Test Report

TAIWAN TAIYO INK CO., LTD.  
NO.7 TA TUNG SECOND RD. KUAN-YIN INDUSTRY  
PARK TAOYUAN TAIWAN, R.O.C.

Report No : CE/2004/42552  
Date : 2004/05/02  
Page : 1 of 2

The following merchandise was(were) submitted and identified by the client as :

油墨

<u>Type of Product</u>	:	PSR-2000AM
<u>Style/Item No</u>	:	PHOTO IMAGEABLE SOLDER RESIST INK
<u>Sample Received</u>	:	2004/04/23.
<u>Testing Date</u>	:	2004/04/23 TO 2004/05/02

Test Result : - Please see the next page -

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

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TW 0751489

**SGS**

手印

**Test Report**

TAIWAN TAIYO INK CO., LTD.  
NO.7 TA TUNG SECOND RD. KUAN-YIN INDUSTRY  
PARK TAOYUAN TAIWAN, R.O.C.

Report No : CE/2004/42552  
Date : 2004/05/02  
Page : 2 of 2

油墨

**Test Result**

PART NAME NO.1 : GREEN INK

Test Item(s):	Unit	Method	MDL	Result			
				NO.1			
PBBs(Polybrominated biphenyls)(CAS NO:67774-32-7)	%	With reference to 83/264/EEC. Analysis was performed by GC/MS/ECD or HPLC/DAD/MS.	0.0005	N.D.			
PBBEs(PBDEs)(Polybrominated biphenyl ethers)	%	With reference to 83/264/EEC. Analysis was performed by GC/MS/ECD or HPLC/DAD/MS.	0.0005	N.D.			
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	N.D.			
Cadmium (Cd)	ppm	ICP-AES After As per EN 1122, Method B:2001 or other acid digestion.	2	N.D.			
Mercury (Hg)	ppm	ICP-AES After As per US EPA 3052 or other acid digestion.	2	N.D.			
Lead (Pb)	ppm	ICP-AES After As per US EPA 3050B or other acid digestion.	2	N.D.			

- NOTE: (1) N.D. = Not detected.(<MDL)  
(2) ppm = mg/kg  
(3) MDL= Method Detection Limit  
(4) " ---" = Not Applicable  
(5) " -" = Not Regulation  
(6) \* = Results shown are of the adjusted analytical results.  
(7) \*\*= Qualitative analysis(No Unit)  
(8) Negative = Undetectable / Positive = Detectable.

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TW 0751488

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台灣檢驗科技股份有限公司 | (886-2) 2299-3939 | (886-2) 2299-3237 | www.sgs.com.tw

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不锈钢

测试报告

编号: GZSCRO41037666/LP-2 日期: 2004年10月21日 页码 1 of 1

焯钢金属制品有限公司

广东佛山市南海区官窑镇大榄管理区

本报告基于对客户提供的测试样品:

号码	名称
GPL0410111-02	不锈钢 SUS304

SGS 参考编号 : GPL0410111  
 收板日期 : 2004年10月18日  
 测试日期 : 2004年10月18日至2004年10月21日

测试要求 : 分析委托样品中的铅, 镉, 汞, 六价铬, 砷, 铈, 镍和铜含量。

测试方法 : 铅, 砷, 铈, 镍和铜含量 - SGS 内部方法, 参照 EPA 方法 3050B:1996.  
 镉含量 - SGS 内部方法, 参照 BS EN1122:2001 方法 B.  
 汞含量 - SGS 内部方法, 参照 EPA 方法 3052:1996.  
 六价铬含量 - 参照 EPA 方法 3060A:1996 和 7196A:1992.  
 分析仪器为电感耦合等离子体发射光谱仪/紫外分光光度计。

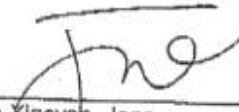
测试结果:

	金黄色的金属片
铅含量 (ppm)	22
镉含量	N.D.
汞含量	N.D.
六价铬含量	N.D.
砷含量	N.D.
铈含量	N.D.
镍含量 (ppm)	4
铜含量	N.D.

说明: - N.D. = 没有检测到 (< 2 ppm)  
 - ppm = 毫克/千克

\*\*\* 报告完 \*\*\*

Signed for and on behalf of SGS-CSTC Ltd.

  
 He Xiaoyan, Jane  
 Tech. Manager

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4/F, Block 8, Yu Jing Industrial Park, Ling Shan Road, Zhu Cui Dong Pu Area, Tiahe District, Guangzhou China 510660  
 中国·广州·天河区东圃珠村奥山路裕景工业园八栋四楼 邮编: 510660  
 Tel: (86-20) 82109300 Fax: (86-20) 82109558 www.sgs.com  
 Tel: (86-20) 82109300 Fax: (86-20) 82109558 e: sgs-china@sgs.com

Member of SGS Group (Société Générale de Surveillance)



# Test Report

JUNG SHING WIRE CO., LTD.  
 231, SEC. 3, CHUNG-CHENG RD., JEN-TEH HSIANG,  
 TAINAN HSIEN, 717 TAIWAN

Report No. : CE/2005/45613  
 Date : 2005/05/06  
 Page : 1 of 2

The following merchandise was (were) submitted and identified by the client as :

Type of Product : CLASS F SOLDERABLE (OVERCOATED WITH NYLON)  
 ENAMELLED WIRE  
Style/Item No : SFBW/SFBY  
Buyer/Order No : CUSTOMER OF JUNG SHING WIRE CO.,LTD.  
Sample Received : 2005/04/27  
Testing Date : 2005/04/27 TO 2005/05/06

=====

### Test Result

PART NAME NO.1 : TRANSPARENT COATING (PLEASE REFER TO THE PHOTO ATTACHED)

Test Item (s):	Unit	Method	MDL	Result
				No.1
Chromium VI (Cr+6)	ppm	UV-VIS after reference to US EPA 3060A.	2	N.D.
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method B:2001 or other acid digestion.	2	N.D.
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	N.D.
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	N.D.

NOTE: (1) N.D. = Not detected (<MDL)  
 (2) ppm = mg/kg  
 (3) MDL = Method Detection Limit

  
 David Yen, M.R. Operation Manager  
 Signed for and on behalf of  
 SGS TAIWAN LTD.

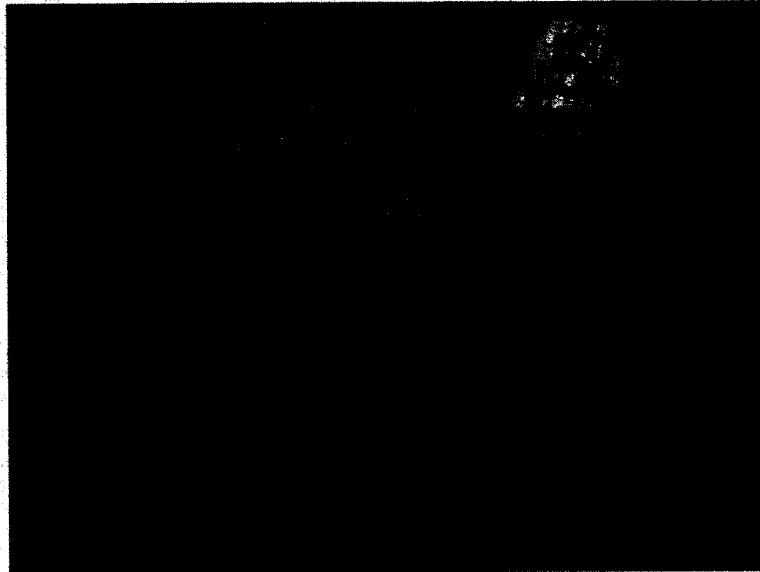
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# Test Report

JUNG SHING WIRE CO., LTD.  
231, SEC. 3, CHUNG-CHENG RD., JEN-TEH HSIANG,  
TAINAN HSIEN, 717 TAIWAN

Report No. : CE/2005/45613  
Date : 2005/05/06  
Page : 2 of 2



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Handwritten notes: 2004/11/02, 500cc

## Test Report

Kester Components Pte Ltd  
500 Chai Chee Lane  
Singapore 469024

Order No. : 10010248C/04  
Date : 12-11-2004  
Page : 1 of 2

The following merchandise was (were) submitted and identified by the client as:

Sample Description : Alloy for Lead Free Bar Wire & Paste - Tin, Silver & Copper (Sn / Ag / Cu)  
Sample Received : NOV 01 2004  
Testing Date : NOV 02 - 12 2004

- =====  
Test Requested :  
1) To determine the Hexavalent Chromium Content on the submitted sample.  
2) To determine the Cadmium Content on the submitted sample in accordance with the EEC Directive 91/338/EEC.  
3) To determine the Mercury Content on the submitted sample.  
4) To determine the Lead Content on the submitted sample.
- Test Method :  
1) With reference to EPA3060A and EPA 7196A, the analysis was performed by Ultra Violet Spectrometer. (UV-VIS)  
2) With reference to BS EN 1122B:2001, the analysis was performed by Inductively Coupled Argon Plasma - Atomic Emission Spectrometry (ICP-AES)  
3) With reference to EPA3052, the analysis was performed by Cold Vapor Atomic Absorption Spectrophotometer (CVAAS) / Mercury Analyzer.  
4) With reference to EPA3050B, the analysis was performed by Inductively Coupled Argon Plasma - Atomic Emission Spectrometry (ICP-AES)

Test Result : - Please see the next page -

1) Tests performed in accordance with the latest issue of relevant test method unless otherwise indicated.  
2) Unless specified, above results relate only to the items tested.  
3) Precision parameters apply in the determination of the above results. Also refer to latest ASTM D3244, IP 367 & Appendix E of IP Standard Methods for analysis & testing, for utilization of test data to determine conformance with specifications.  
4) This report shall not be reproduced except in full, without the written approval of the laboratory.



## Test Report

Kester Components Pte Ltd  
500 Chai Chee Lane  
Singapore 469024

Order No. : 10010248C/04  
Date : 12-11-2004  
Page : 2 of 2

Sample Description : Alloy for Lead Free Bar Wire & Paste - Tin, Silver & Copper (Sn / Ag / Cu)

### Test Result

Test Item (s)	Unit	Method	Instrument	MDL	Results
Chromium VI (Cr <sup>VI</sup> )	ppm	EPA 3060A & EPA 7196A	UV	2	N.D.
Cadmium (Cd)	ppm	BS EN 1122B:2001	ICPAES	2	N.D.
Mercury (Hg)	ppm	EPA 3052	Mercury Analyzer	2	N.D.
Lead (Pb)	ppm	EPA 3050B	ICPAES	2	N.D.

NOTE : (1) N.D. = Not detected (<MDL)  
(2) ppm = mg/kg  
(3) MDL - Method Detection Limit

SGS Testing & Control Services Singapore Pte Ltd

  
Sharon Cheong  
Assistant Manager

1) Tests performed in accordance with the latest issue of relevant test method unless otherwise indicated.  
2) Unless specified, above results relate only to the items tested.  
3) Precision parameters apply in the determination of the above results. Also refer to latest ASTM D3244, IP 367 & Appendix E of IP Standard Methods for analysis & testing, for utilization of test data to determine conformance with specifications.  
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SGS Testing & Control Services Singapore Pte Ltd | 26 Ayer Rajah Crescent #03-07 Singapore 139944 t +65 6778 1550 f +65 6779 5805 www.sgs.com

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# SPEED TECH CORPORATION

## PACKING LIST

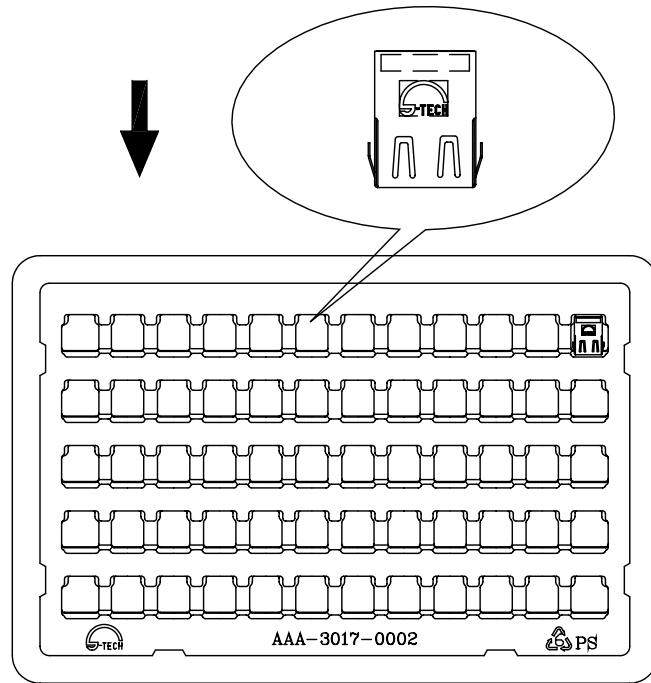
FILE NO: AAA-P02-0101

PRODUCTS NAME: RJ45 1\*1 WITH LED &W/O LED(P02,P26,P52,P65 series)

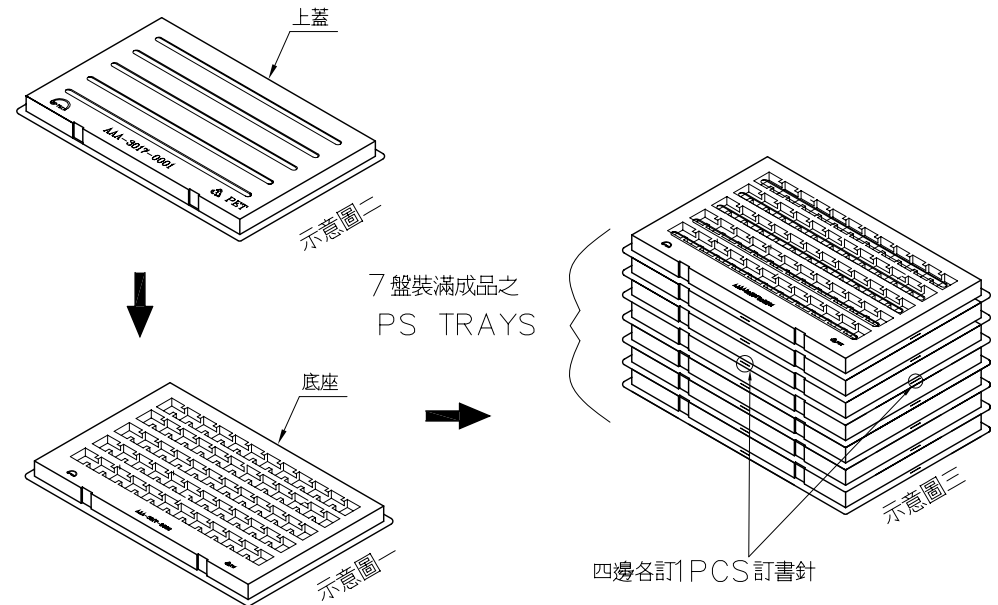
REV.: C

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- 1-1. PUT PRODUCTS INTO THE TRAY AS DRAWING SHOWED.
- 1-2. PACK 60 PCS PRODUCTS PER TRAY.



- 2-1. PUT THE TOP COVER ON THE TRAY AND FIX THE TRAY WITH STAPLES AS DWG SHOWN. WHEN THE TRAY IS FULL OF PRODUCTS(60 PCS) , GATHER 7 TRAYS AS DWG SHOWN.
- 2-2. NOTE: THE PRODUCTS DIRECTION & TRAYS DIRECTION SHOULD BE THE SAME.



NOTES:

APPROVED: Alien

CHECKED: Frank

DRAWN: Wind

# SPEED TECH CORPORATION

## PACKING LIST

FILE NO: AAA-P02-0101

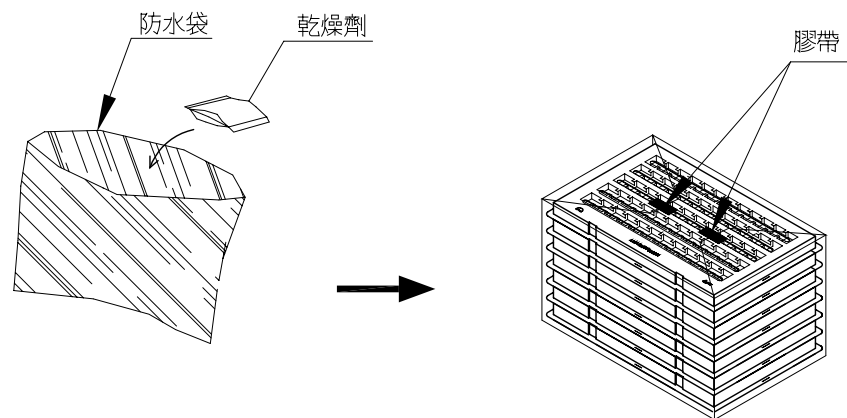
PRODUCTS NAME:RJ45 1\*1 WITH LED &W/O LED(P02, P26, P52, P65 series)

REV.: C

PAGE: 2 / 4

3-1. PUT 1 PCS SILCA GEL INTO THE P. E BAG  
AND PACK WITH 7 TRAYS.

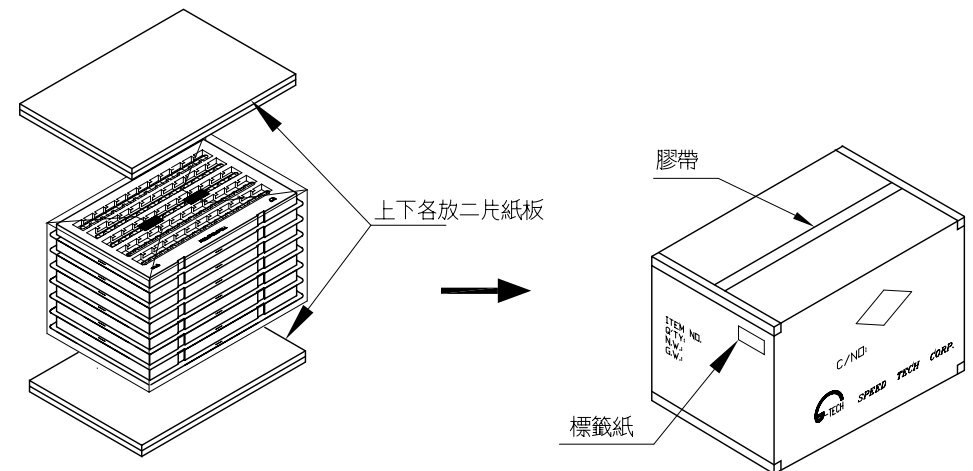
3-2. CLOSE P. E. BAG AND STICK TAPE.



4-1. AFTER STEP 3-2 ,PUT THE PRODUCTS WITH 4 PCS  
CARDBOARD INTO THE BOX AS DRAWING SHOWN.

4-2. SEAL BOX WITH TAPE.

4-3. SEAL LABEL, LOCATION AS DRAWING SHOWN.



NOTES:

APPROVED: Alien

CHECKED: Frank

DRAWN: Wind

# SPEED TECH CORPORATION

## PACKING LIST

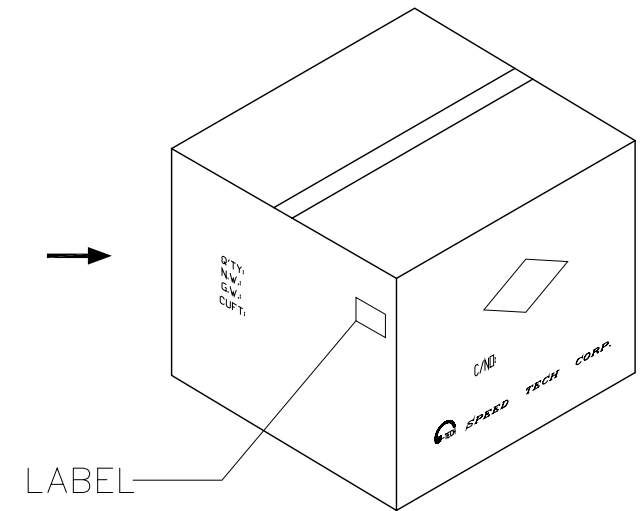
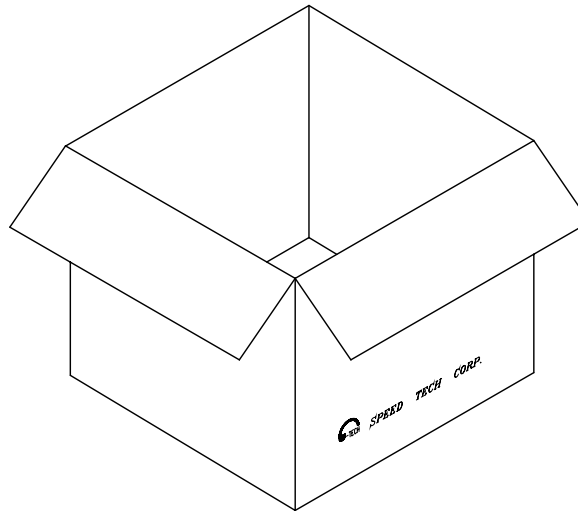
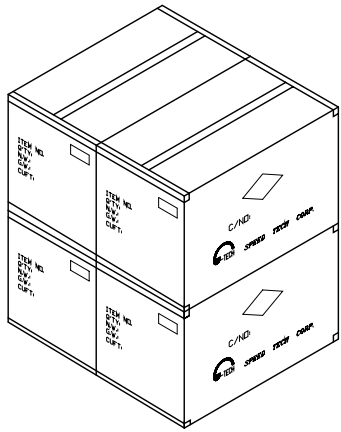
FILE NO: AAA-P02-0101

PRODUCTS NAME:RJ45 1\*1 WITH LED &W/O LED(P02, P26, P52, P65 series)

REV.: C

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- 4-1. PLACE 4 INNER BOXES INTO A CARTON
- 4-2. CLOSE CARTON WITH TAPE.
- 4-3. STICK LABEL, LOCATION ON THE CARTON AS DRAWING SHOWN.



NOTES:

APPROVED: Alien

CHECKED: Frank

DRAWN: Wind

# SPEED TECH CORPORATION

## PACKING LIST

FILE NO: AAA-P02-0101		PRODUCTS NAME:RJ45 1*1 WITH LED &W/O LED(P02, P26, P52, P65 series)				REV.: C	PAGE: 4 / 4		
PACKING M'TL PARTS LIST (FOR 1 CARTON)				PRODUCT NO.	PACKING CAPACITY			WEIGHT	
PART NAME	PAPT NO.	N.W.(KG)	Q'TY		PCS / TRAY	PCS / BOX	PCS / CARTON	N.W. KG	G.W. KG
CARTON	AAA-1008-0020		1	P02-XXX-XXXX	60	420	1680		
BOX	AAA-1008-0021		4	P26-XXX-XXXX	60	420	1680		
TRAY COVER	AAA-3017-0001		28	P52-XXX-XXXX	60	420	1680		
TRAY	AAA-3017-0002		28	P65-XXX-XXXX	60	420	1680		
CARDBOARD	AAA-8005-0002		16						
PE BAG	AAA-6004-0002		4						
SILICA GEL	AAA-6002-0211		4						
LABEL	AAA-7001-0001		5						
<b>PRODUCTS NAME:</b> 1. P02-XXX-XXXX 2. P26-XXX-XXXX 3. P52-XXX-XXXX 4. P65-XXX-XXXX									
<b>NOTES:</b>									
<b>APPROVED:</b> Alien					<b>CHECKED:</b> Frank			<b>DRAWN:</b> Wind	