

APPROVED DATA

Company Name: <u>Digi International</u>							
Customer Part Nu	Customer Part Number:						
Pinrex Part Number : 984-63-052202							
	Mini PCI Express Socket						
	<u>0.8Pitch 52P</u>						

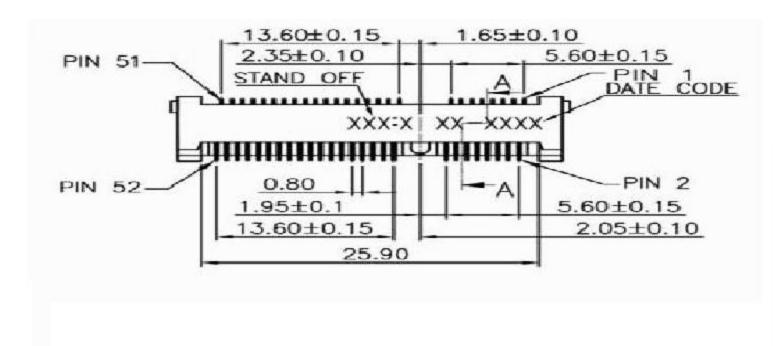


頻銳科技股份有限公司 PINREX TECHNOLOGY CORP.

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

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

本公司通過 QA ISO9000 及 140001 認証

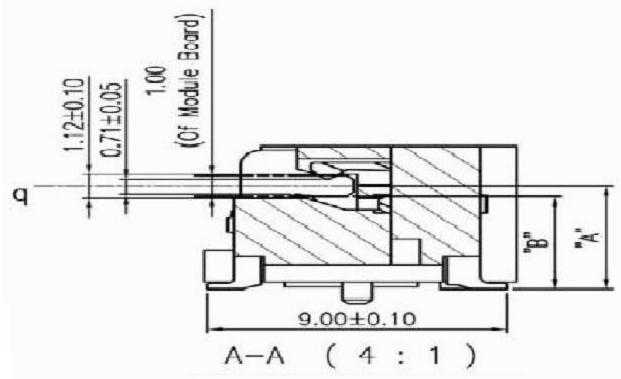


25.00±0.1

1.44±0.10

3.85±0.10

0.90±0.10



Material: Housing:

Housing: High Temperature Plastic UL94V-0

Contact: Brass

Contact Area: Gold flash

Solder: Lead Free

1. 1: Bag

2: TUBE

3: Tape Reel

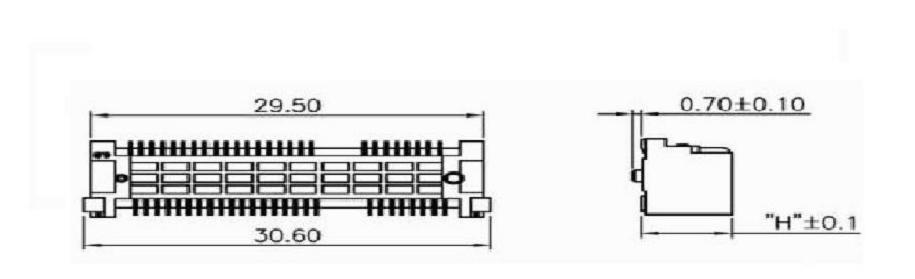
2. 052: 52Pin

3. 1: DIP 90°

2: SMT 90°

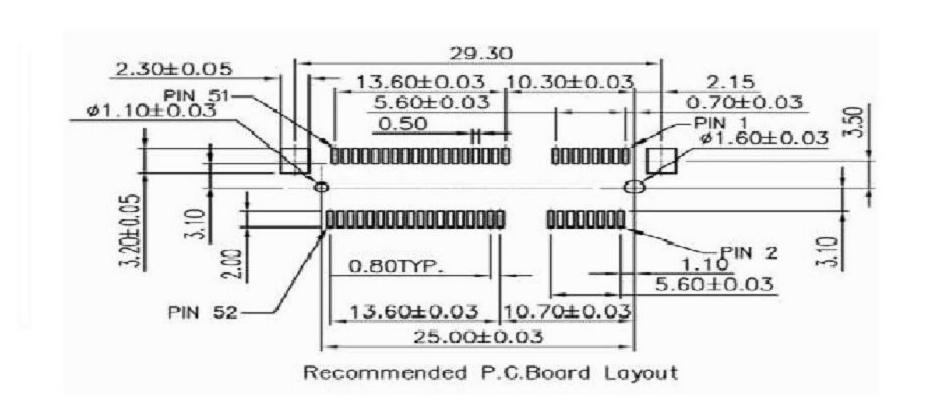
4. 0: H=6.8mm A=4.9 B=4.4

5. Pinrex internal code.



1.38±0.05

□ 0.10



			TOLERANCE .0 =±.30 .00 =±.20	⊕ - <u></u> <u></u> = ∃	OLD PART NO. 119A-68 DRAWER	3C00-R CHECK	ΠΠLE MINI PCI Express Socket	Power 頻銳科技股份有限公司
8 28			.000 =±.XXX	UNITS : mm	Naomi	de are status escende	0.8Pitch	PINREX TECHNOLOGY CORP.
Α	RELEASE	2008/02/14	.0000=±.	SCALE SIZE	SHEET REV.	APP'D	NEW PART NO.	DRAW NO.
REV.	DESCRIPTION	DATE	ANG.=±3°	NONE A4	1 OF 1 A		984-63-052202	984-63-052202

Scope:

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

Performance and Descriptions:

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

ROHS:

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

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

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

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

SOLDER ABILITY						
Item	Requirement	Test Condition				
Solder ability	Wet solder coverage:	Solder temperature: 260±5°C				
	95% Min.	Immersion duration: 3±0.5sec.				
Resistance to	No physical damage.					
Soldering heat.						
		emperature) GE UP: 1.5 C /sec MAX. RE CONDITION GRAPH				

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



號碼: CE/2006/C3886 日期: 2006/12/25 頁數: 1 of 4

福興實業股份有限公司 FU HSING INDUSTRIAL CO., LTD. 台北市延平南路74號 74, YEN PING SOUTH ROAD, TAIPEI, 100-34 TAIWAN

本報告爲客户所要託的樣品,樣品名稱為"VECTRA LCP"所做的測試.

Report on the submitted sample said to be VECTRA LCP.

樣品型號(Style/Item No)

: A130 BK010P \ E130i BK205P \ E130i BK210P \ E130i BK211P \ E471i BK210P \ E471i BK211P \ E472i BK210P \ E473i BK210P \ E480i BK210P \ T130 BK005P \ S135 BK010P \ A150B BK213P \

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

測試期間(Testing Period)

2006/12/18 TO 2006/12/25

L140 BK210P

測試需求 / Test Requested

: 参照 RoHS 2002/95/EC 及其修定指令要求. / In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

測試方法 / Test Method

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

測試結果 / Test Result(s)

請見下一頁。

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

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福興實業股份有限公司 FU HSING INDUSTRIAL CO., LTD. 台北市延平南路74號

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

測試結果 (單位: mg/kg) / Test Result(s)

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

<u>測試部位描述 / Test Part Description:</u>

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

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號碼: CE/2006/C3886 日期: 2006/12/25 頁數: 3 of 4

福興實業股份有限公司 FU HSING INDUSTRIAL CO., LTD. 台北市延平南路74號 74, YEN PING SOUTH ROAD, TAIPEI, 100-34 TAIWAN Note: 1. mg/kg = ppm

- 2. n.d. = Not Detected / 未檢出
- 3. MDL = Method Detection Limit / 方法偵測極限値
- 4. Sum of Mono to NonaBDE & according to 2005/717/EC DecaBDE is exempt. 根據2005年10月13日歐盟會議公佈2005/717/EC,修訂2002/95/EC內容,通過解除高分子材質中十溴聯苯醚之使用限制。
- 5. "-" = Not Regulated / 無規格値



號碼: CE/2006/C3886 日期: 2006/12/25 頁數: 4 of 4

福興實業股份有限公司

FU HSING INDUSTRIAL CO., LTD.

台北市延平南路74號

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



** 報告結尾 **



MINCHALI METAL INDUSTRY CO., LTD.

11, PEI YUAN ROAD, CHUNG LI CITY, TAIWAN, R. O. C.

No : CE/2006/A1255

Date : 20061016

Page: 1 of 5

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

Sample Description

黃銅

Style/Item No

: C2680 (65/35)

Manufacturer/Vendor

MINCHALI METAL INDUSTRY CO., LTD.

Country of Origin

TAIWAN

Sample Receiving Date

2006/10/5

Testing Period

: 2006/10/5 TO 2006/10/16

Test Result(s)

: Please refer to next page(s).

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



MINCHALI METAL INDUSTRY CO., LTD.

11, PEI YUAN ROAD, CHUNG LI CITY, TAIWAN, R. O. C.

No : CE/2006/A1255

Date : 20061016 Page : 2 of 5

Test Result(s)

GOLDEN COLORED METAL SHEET PART NAME NO.1

PASS

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

Test Item (s):	Unit	Method	MDL	Result No.1	Spec.
Cadmium (Cd)	mg/kg	With reference to BS EN 1122:2001, Method B for Cadmium Content. Analysis was performed by ICP-AES.	2	n.d.	5 0 3
Lead (Pb)	mg/kg	With reference to US EPA Method 3050B for Lead Content. Analysis was performed by ICP-AES.	2	18.5	5 0 3
Mercury (Hg)	mg/kg	With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.	2	n.d.	303
Chromium VI (Cr+6)	mg/kg	With reference to US EPA Method 3060A & 7196A for Hexavalent Chromium . Analysis was performed by UV/Vis Spectrometry.	2	n.d.	9+3



No : CE/2006/A1255 MINCHALI METAL INDUSTRY CO., LTD.

11, PELYUAN ROAD, CHUNG LI CITY, TAIWAN, R. O. C. Date : 20061016 Page :3 of 5

Test Item (s):	Unit	Method	MDL	Result	Spec.
	Office	Tricking at	11102	No.1	op co.
Sum of PBBs			₹:	n.d.	3 8 6
Monobromobiphenyl			5	n.d.	823
Dibromobiphenyl			5	n.d.	386
Tribromobiphenyl		1	5	n.d.	383
Tetrabromobiphenyl			5	n.d.	386
Pentabromobiphenyl		1	5	n.d.	9.00
Hexabromobiphenyl	, i		5	n.d.	848
Heptabromobiphenyl	- 2	1	5	n.d.	(1 7 ()
Octabromobiphenyl		1	5	n.d.	(14)
Nonabromobiphenyl		With reference to US EPA 3540C for PBB/PBDE Content.	5	n.d.	2 .5 3
Decabromobiphenyl			5	n.d.	040
Sum of PBDEs (Mono to	74		3	n.d.	300
Nona) (Note 4)	mg/kg	Analysis was performed by GC/MS and screening via US			
Monobromobiphenyl ether		EPA 3550C with	5	n.d.	3. 5. 3
Dibromobiphenyl ether			5	n.d.	040
Tribromobiphenyl ether			5	n.d.	300
Tetrabromobiphenyl ether		1	5	n.d.	8 <u>8</u> 8
Pentabromobiphenyl ether		1	5	n.d.	3 0 6
Hexabromobiphenyl ether		1	5	n.d.	383
Heptabromobiphenyl ether		1	-5	n.d.	300
Octabromobiphenyl ether		į	5	n.d.	650
Nonabromobiphenyl ether			5	n.d.	244
Decabromobiphenyl ether	7		5	n.d.	(171)
Sum of PBDEs (Mono to Deca)			<u>ū</u>	n.d.	(14)

Note: 1. mg/kg = ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

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

5. "---" = Not Conducted

6. " - " = Not Regulated

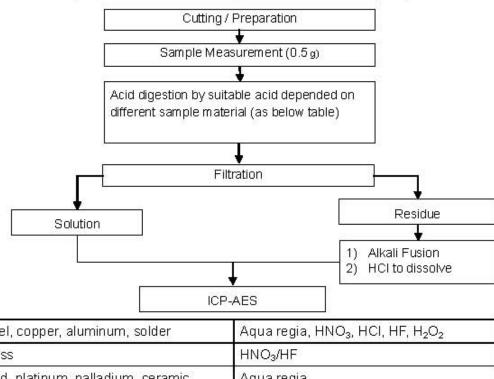


MINCHALL METAL INDUSTRY CO., LTD. 11, PEI YUAN ROAD, CHUNG LI CITY, TAIWAN, R. O. C. No : CE/2006/A1255

Date : 20061016 Page : 4 of 5

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

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



Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO₃/HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCI
Others	Any acid to total digestion



MINCHALI METAL INDUSTRY CO., LTD. 11, PEI YUAN ROAD, CHUNG LI CITY, TAIWAN, R. O. C. No : CE/2006/A1255

Date : 20061016

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** End of Report **



No.: GZ0703040006/CHEM

Date: MAR 28, 2007

Page 1 of 3

XINHAO SURFACE TREATMENT CO., LTD A3 2 FLOOR, XINGANGLIAN INDUSTRIAL ZONE, HONGXING VILLAGE, SONGGANG TOWN, SHENZHEN CITY IN CHINA

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

SGS Ref No.

SZ10293568-5.3

Sample Receiving Date

: MAR 22, 2007

Testing Period

: MAR 22, 2007 TO MAR 28, 2007

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

Test Method

: With reference to IEC 62321 Ed.1 111/54/CDV

Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products

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

Test Results

: Please refer to next page.

Conclusion

: Based on the performed tests on submitted sample(s), the results comply with the RoHS

Directive 2002/95/EC and its subsequent amendments.

Signed for and on behalf of SGS-CSTC Ltd.

Jiano Yong Ping, Terry

emica Laboratory.

Sr. Engineer

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f (86-20) 82075125 t (86-20) 82155555 t (86-20) 82155555 f (86-20) 82075125



No.: GZ0703040006/CHEM

Date: MAR 28, 2007

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

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

Test Part Description:

No.1 Golden plated copper-colored metal sheet

Note: 1. mg/kg = ppm

2. N.D. = Not Detected (< MDL)
3. MDL = Method Detection Limit

4. Spot-test:

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

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

Boiling-water-extraction:

Negative = Absence of CrVI coating

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

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

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

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GZCM 9 7 7 3 3 5

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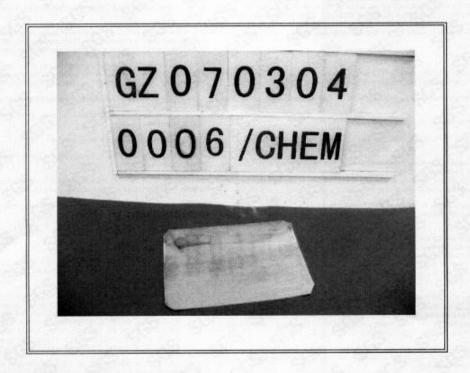


No.: GZ0703040006/CHEM

Date: MAR 28, 2007

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Sample photo:



SGS authenticate the photo on original report only

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No.: GZ0703040008/CHEM

Date: MAR 28, 2007

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XINHAO SURFACE TREATMENT CO., LTD
A3 2 FLOOR, XINGANGLIAN INDUSTRIAL ZONE, HONGXING VILLAGE, SONGGANG TOWN, SHENZHEN CITY IN
CHINA

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

SGS Ref No.

SZ10293568-5.5

Sample Receiving Date

: MAR 22, 2007

Testing Period

: MAR 22, 2007 TO MAR 28, 2007

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

Test Method

: With reference to IEC 62321 Ed.1 111/54/CDV

Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products

- Determination of Cadmium by ICP.
 Determination of Lead by ICP.
- (3) Determination of Mercury by ICP.
- (4) Determination of Hexavalent Chromium by Colorimetric Method.

Test Results

Please refer to next page.

Conclusion

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

Signed for and on behalf of SGS-CSTC Ltd.

Jang YongPing, Terry Sr. Engineer

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

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

Test Part Description:

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

Note: 1. mg/kg = ppm

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

3. MDL = Method Detection Limit

4. Spot-test:

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

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

Boiling-water-extraction:

emical Laboratory

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.

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

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

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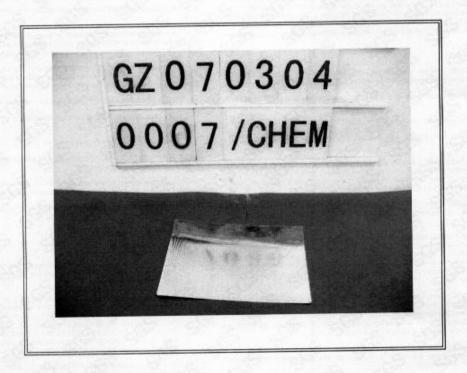


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Sample photo:



SGS authenticate the photo on original report only

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