亞 驪 企 業 股 份 有 限 公 司 ARISTOTLE ENTERPRISES

承認申請書

客戶名稱:

技嘉科技股份有限公司

Customer

廠商料號:

RFA-02-C14H1-06-200C

Part No.

品名:

2.4GHZ,L=200mm,SW1.13G

Description

圖號:

RFA-02-C14H1-06-200C.DWG

Drawing No.

客戶料號:

Drawing No.

出廠簽章:

檢	核 對	承 認
TEST BY	CHECK BY	APPROVE BY
周沂珮	黄秋芳	廖焕文

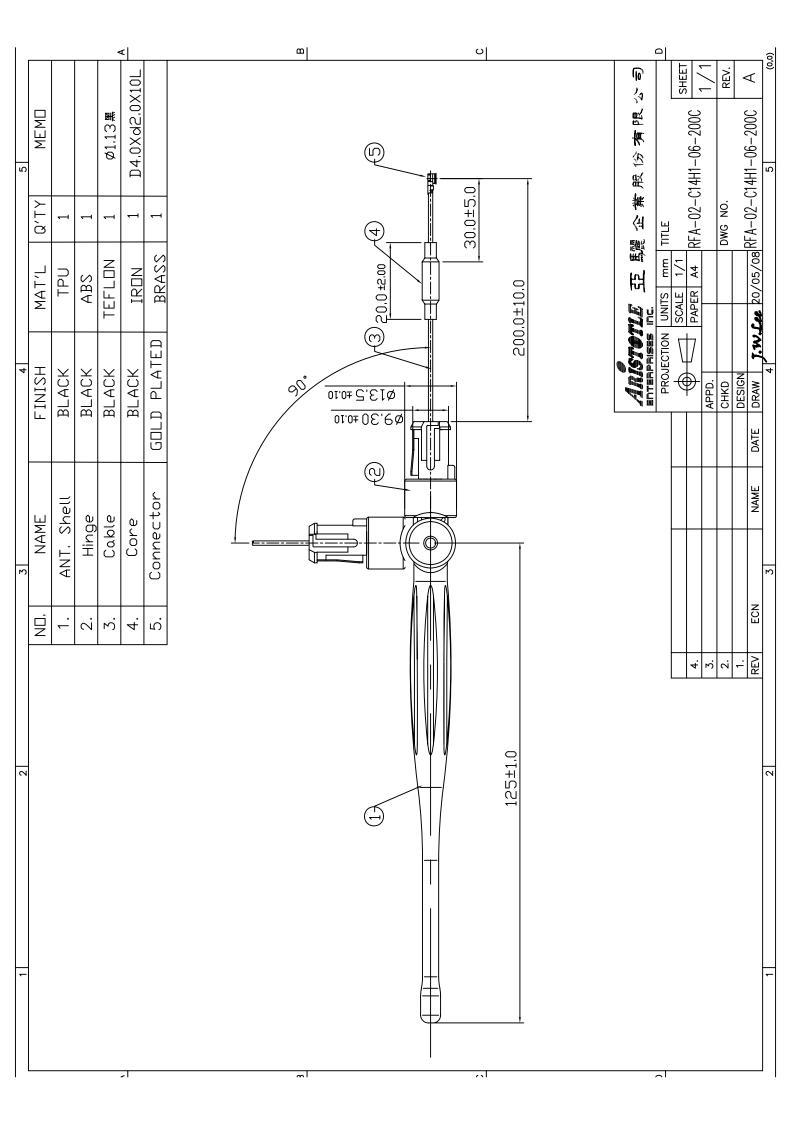
承認簽章:

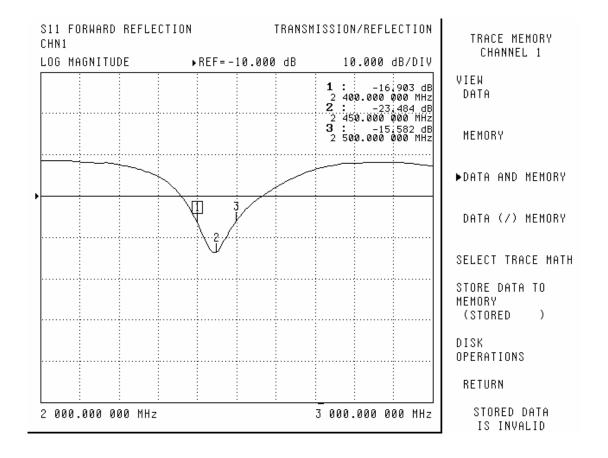
檢 TEST BY	核 對 CHECK BY	承 認 APPROVE BY

地址:台北縣中和市莒光路 63 號 8 樓

電話:02-2225-8209 傳真:02-2225-7523

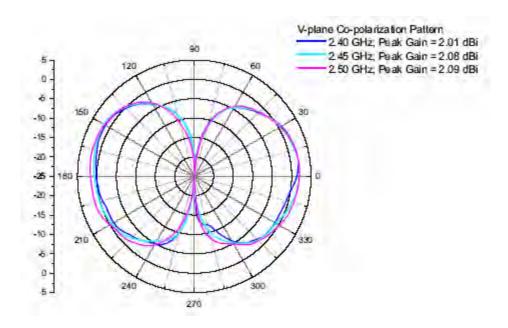
表單編號: QP-0603-F02 版本: A



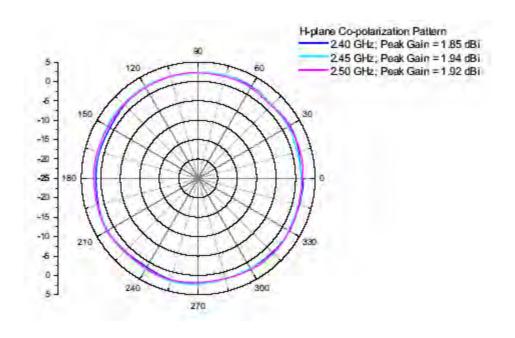


ANTENNA RADIATION PATTERN

11b dipole Antenna Radiation pattern: E-Plane



11b dipole Antenna Radiation pattern: H-Plane





59-1 SAN CHIA, JEN TE, TAINAN COUNTY, TAIWAN R.O.C.

TEL: 886-6-266-5000,

FAX: 886-6-266-5555-7

泛用級 ABS, POLYLAC® PA-757

VIW

材料特性

特性(Properties)	测试方法(Test Method)	测试条件(Test Condition)	平位(Unit)	PA-757
引張強度 Tensile Strength	ASTM D638	1/8",6 mm/min	Kg/cm ² (lb/in ²)	480(6800)
延伸車 Tensile Elongation	ASTM D638	1/8**,6 mm/min	%	20
彎曲強度 Flexural Strength	ASTM D790	1/4",2.8 mm/min	Kg/cm ² (lb/in ²)	820(11660)
彎曲彈性率 Flexural Modulus	ASTM D790	1/4",2.8 mm/min	Kg/cm ² (lb/in ²)	27000(380000)
IZOD 衝擊強度 Izod Impact Strength	ASTM D256(Notched)	1/4",23°C 1/8",23°C	Kg-cm/cm(ft-lb/in) Kg-cm/cm(ft-lb/in)	
流動係數 Melt Flow Index	ASTM D1238	200°C ,5Kg	g/10min	1.8
硬度 Hardness	ASTM D785	1/2"	R Scale	116
比重 Specific Gravity	ASTM D792	23 °C	•	1.05
軟化點 Vicat Softening Temp	ASTM D1525	1/8",50°C/hr	C(F)	105(221)
熱變形溫度 H.D.T Annealed(85°C .8hr) Unannealed	ASTM D648	1/4",120°C/hr	°C(°F)	99(210) 88(190)
燃境率 Flammability	UL 94			1/16"HB

以上數據僅代表一般通用數據,不代表每一產品的規格值

若有任何疑問請治產品推廣課 06-2665000, 06-2663000

奇美實業股份有限公司

台灣省台南縣仁德鄉三甲村59-1號, 曹 括:886-6-266-5000, 律 并:886-6-266-5555~7

1 /2(A-GHE)

物質安全資料表

VIW

1. 物品及廠商資料

產品名稱 Polylac *

PA-707 PA-757 PA-757N PA-717C PA-727 PA-747 PA-709

製造商

等其實業股份有限公司

地址

台灣省台南縣仁德鄉三甲村 59-1 號

電話. 緊急電話。 886-6-2663000 Ext. 1361 (產品推廣課) 886-6-2663000 Ext. 1361 (產品推廣課)

傳真電話.

886-6-2667981

2. 成品辨識資料

單一產品或混合物

單一產品

化學名稱

Acrylonitrile-Butadiene-Styrene Copolymer

含量 化學式

>985 (添加劃≤2%) (C3H3N, C4H6, C8H8)x

CAS No.

9003-56-9

危害性不純物

無

3. 危害性分類

健康危害效應

環境影響

無

物理性及化學性危害

A

特殊危害

施

4. 急救措施

吸入

若吸入熔驗樹脂逸出之氣體,將患者移至遇風處,立即退醫。

皮盾接觸

若接觸到塑膠粒或塑膠粉末,以清水沖洗。

眼睛接觸

若接觸到嫁膠,以大量(肥皂)水沖洗息部及衣物,立即送醫。

若接觸到變膠粒或變膠粉末,以大量清水至少沖洗15分鐘。

若有不適,立即送醫,

若接觸到高溫熔驗樹脂逸出之氣體,以大量清水至少沖洗 15 分鐘。

若有不適,立即透蘭。

存食

催吐,以清水漱口,若有不適,立即送醫。

5. 消防措施

適用減火劑

水、泡沫、乾粉

滅火時可能遭遇之特殊危害

特殊滅火程序

移除可燃物

消防人員之特殊防護設備

使用供氣式呼吸防護具

6. 洩漏處理方法

個人應注意事項

若塑膠維或塑膠粉末殘留於地面上,可能會導致人員滑倒。

環境注意事項

為防止為類或魚類由排水系統中攝食、須徹底回收

清理方法

回收或磨景

7. 安全處置與储存方法

店置

操作處所須嚴禁煙火,做好整理整頓以避免的歷累積,為防止應爆,空氣輸 送管路、袋遮器及儲槽須加裝靜電消除裝置,並確實接地。袋遮器之濾材採

導電性材質

维存

存放於陰凉處所,避免直射陽光、兩淋及急遽之溫差。儲存處嚴禁煙火

一 奇美實業股份有限公司

台灣省台南縣仁德鄉三甲村59-1號, 電話:886-6-266-5000, # 第:886-6-266-5555-7

2 /2(A-GHE)

8. 暴露預防措施

容許濃度(TLV) 通風設備

個人防護設備

未定

排除粉塵、煙及氣體時使用

呼吸防护 清洗成型機时使用防毒面具。

手部防護 接觸熔膠時使用皮手套。

眼睛防護 爭時使用安全眼鏡,清洗成型機時使用護日鏡

9. 物理及化學性質

比重 溶解度 米白色膠粒

総 ※ 404 °C 466 °C 45 g/m³ 3.6 mJ 7 × 10⁵ Pa 3.2 × 10⁵ Pa/S

1, 03-1, 10

10. 安定性及反應性

安定性 危害性分解物 燃烧能量 依一般操作及储存程序時,安定性佳。

CO, HCN, AN, SM and NO

3, 53 × 10³ J/kg (8424 Kcal/kg)

11.毒性資料

刺激性

分解後之型膠所產生的煙及蒸氣會刺激眼睛。

12. 生態資料

為防止被海洋生物或鳥類攝食、嚴禁丟棄至海洋或水域。。

13. 廢棄物處理

適當之焚化爐燃燒或掩埋法。不適當之焚化爐可能會產生有毒氣體如 CO, HCN, AN and SM.

14. 運送資料

未分類

15. 法規資料

施

16. 其他資料

施

CHI MEI CORPORATION

59-1 SAN CHIA JEN TE TAINAN HSIEN TAIWAN

Material Designation: PA-757 (+)

Product Description: Acrylonitrile Butadiene Styrene (ABS), designated "Polylac" furnished as pellets.

Color	Min. Thick. (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str	IEC GWIT	IEC GWFI
ALL	1.5	HB	4	$\cdot 0$	85	80	85	-	-
-30.	3.0	HB	3.	0	85	80	85	,	-
CTI: 0	IEC CTI: -	HVTR	1		D495	:1		IEC Ball Pre	ssure (°C): -
Dielectric Streng ISO Tensile Stre ISO Tensile Imp	ngth (MPa)	Volume Re ISO Flexuri ISO Izod In	al Strength	(MPa): -). ₅	4월년 원호() 1		Dimensional Stability(%): ISO Heat De (*C): - ISO Charpy (kJ/m²): -	effection

(+) Optional prefix or suffix may be used to denote 0-0.5% acid scavengers.

Report Date: 6/23/1983

Underwriters Laboratories Inc®

UL94 small-scale test data does not pertain to building materials, furnishings and related contents. UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in components and parts of end-product devices and appliances, where the acceptability of the combination is determined by ULI.



CHI MEI CORPORATION

59-I SAN CHIA, JEN TE, TAINAN COUNTY, TAIWAN R.O.C.

TEL: 886-6-266-5000,

FAX: 886-6-266-5617

Data issued: May 25, 2005

We hereby certify that the follow Polylac ABS resin (list as follow) produced by Chi Mei Corporation

GP-Grade

PA-707, PA-757, PA-717C, PA-727, PA-747, PA-709,

HF-Grade

PA-756, PA-756S, PA-756H, PA-756B, PA-716, PA-746,

PA-746H, PA-737

Extrusion Grade

PA-747F, PA-747R, PA-747S, PA-709S

HH-Grade

PA-777B, PA-777D, PA-777E

Transparent Grade

PA-758

conforms to the requirement that no chemicals as following are added.

PBBEs (Poly Bromo Bisphenyl Ethers)

PBBs (Poly Bromo Bisphenyls)

Ozone Depleting Chemicals(CFC's&HCFC'S) 3.

Chlorinated Paraffin (C10-C13) 4.

Polyvinyl Chloride (PVC) 5.

Mercury(Hg) and its compounds, 6.

Lead(Pb) and its compounds, 7.

Cadmium(Cd) and its compounds, 8.

Chromium(Cr) and its compounds,

9. Arsenic(As) and its compounds, 10.

Antimony(Sb) and its compounds, 11.

Selenium(Se) and its compounds, 12.

Barium(Ba) and its compounds,

14. Chromium(Cr) VI and its compounds

15. Organic tin compounds

Polychlorinated Biphenyls(PCB's) and Terphenyls(PCT's)

Poly naphthalenes

Azo compounds

19. Polychlorinated biphenyl

Polychlorinated naphthalene

Asbestos

Phthalates

With regard to composition of above grade, they can comply with the Directives of RoHS (2002/95/EC), 2003/11/EC, TCO'99, Blue Angel and SONY (SS-00259)

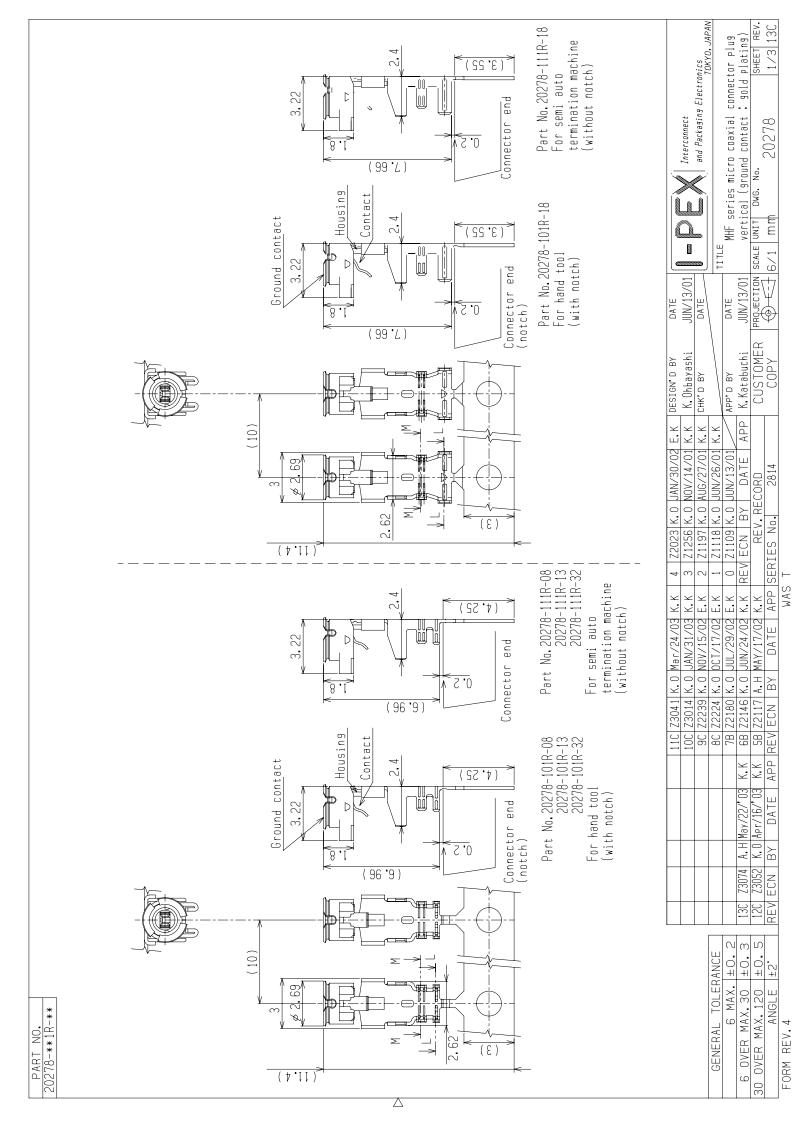
Sincerely Yours,

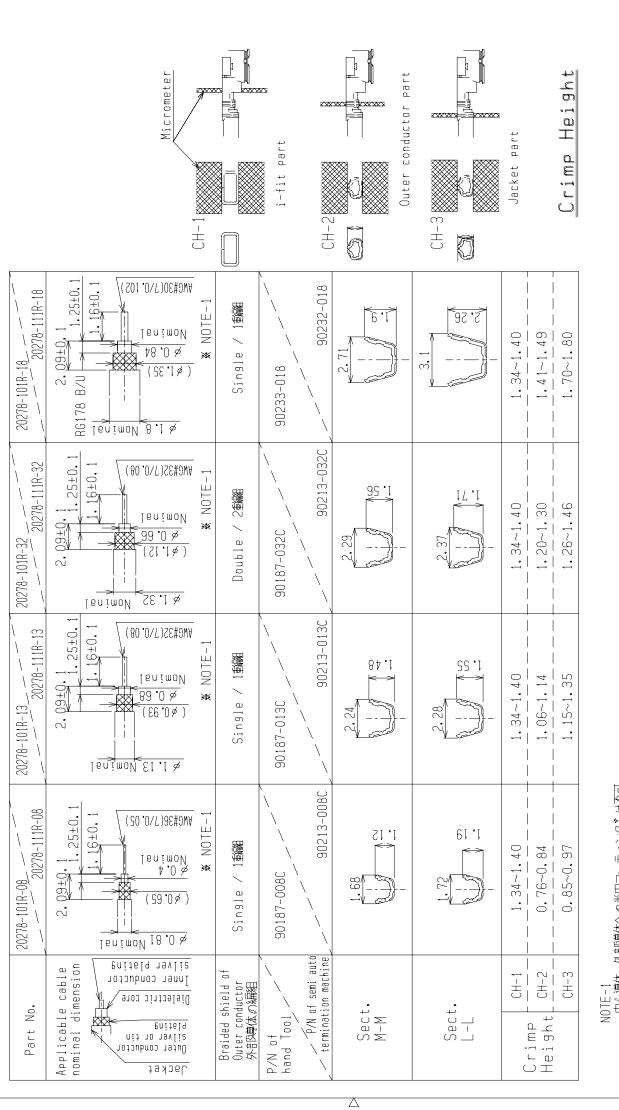
Eric Chou

Manager

Department of Product Strategy & Service

This statement is based on our current level of knowledge and covers the above resins as supplied by CHI MEI CORPORATION at the date of issue. Since conditions of use are outside CHI MEI CORPORATION's control, CHI MEI CORPORATION makes no warranties, express or implied, and assumes no liability in connection with any use of this information.

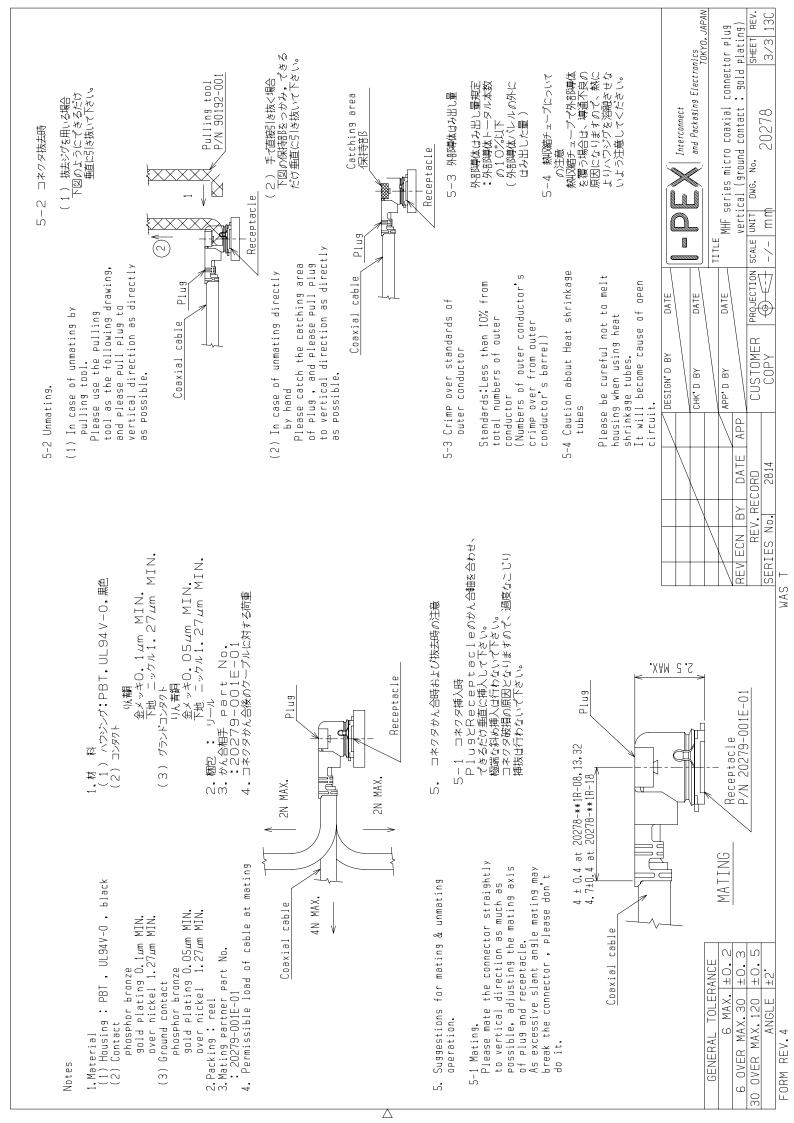




inner conductor and outer conductor. NOTE-1 中心導体,外部降体への半田コーティンク。は不可 Must not use solder coated

ANCE	±0.2	±0.3	±0.5	+2.	
GENERAL TOLEF	6 MAX.	6 OVER MAX. 30	30 OVER MAX, 120	ANGLE	FORM REV. 4
	GENERAL TOLERANCE	GENERAL TOLERANCE 6 MAX. ±0.2	RANC +0 +0	AANC +0. +0.	HANC +0. +0. +0. +2.

	חשור חושור חושור חושור	
		Interconnect
	CHK'D BY DATE	and Packaging Electronics
	\	
		TITIF
	APP'D BY DATE	A THE series micro coaxial connector plug
REV ECN BY DATE APP		vertical (ground contact : gold plating)
REV. RECORD	CUSTOMER PROJECTION SCALE UNIT DWG. No.	N SCALE UNIT DWG. No.
SERIES No. 2814		- -/- mm 20278 2/3 13C
WAS T		



Date :
Our Spec. No. WS03-M051

MESSRS.

SPECIFICATION

FOR

HIGH FREQUENCY COAXIAL CABLE

"KHCX - 32AWG - SB - TA"

SHOWA ELECTRIC WIRE & CABLE CO., LTD.

TORANOMON

TOKYO JAPAN

James Huang

LANTRRA INDUSTRIAL CO., LTD. F.14, NO. 92, SHING TEH ROAD, SAN CHUNG, TAIPEI, TAIWAN TEL:886-2-8511-1178 FAX:886-2-8511-1179 Email:sales@lanterra.com.tw www.lanterra.com.tw www.lerraview.com.tw

J. mori

T. Mori Manager, Engineering Section Engineering Dept. Electronic Wire Business Unit

Our Spec. No. WS03-M051 (1/2)

1. 適用(SCOPE)

本仕様書は電子機器などの内部配線に使用される細径同軸 "KHCX-32AWG-SB-TA" の構造と特性につい

This specification covers the construction and characteristics of coaxial cable "KHCX-32AWG-SB-TA" for internal wiring of electronic equipment.

2. ケーブル型名の説明 (EXPLANATION OF CABLE TYPE)

KHCX-32AWG-SB-TA

- (2)
- (1) ケーブル略称 (Cable Abbreviation)
- (2) 導体サイズ (Conductor Size)
- (3) 外部導体タイプ (Outer Conductor Type)

3. 構造(CONSTRUCTION)

	項目	要求特性					
	Item	Requirement					
	材質	銀めっき軟銅線					
	Material	Silver coated annealed copper wire					
内部導体 Inner conductor	構成 Stranding	7/0.08mm					
	外径	標準 0.24mm					
	Diameter	Nom. 0.24mm					
	材質 Material	FEP					
	色別	自然色					
絶縁体	Color	Natural					
Insulation	厚さ	標準 0.22mm					
	Thickness	Nom. 0.22mm					
	外径 .	標準 0.68mm					
	Diameter	Nom. 0.68mm					
	材質	錫めっき軟鋼線					
外部導体	Material	Tinned annealed copper wire braid shield					
Outer conductor	構成 Stranding	16/4/0.05 mm					
	材質 Material	FEP					
シース	色別	灰・白・黒					
Sheath	Color	Gray · White · Black					
	厚さ	標準 0.10mm					
	Thickness	Nom. 0.10mm					
仕上外径		標準 1.13mm					
Overall diameter		Nom. 1.13mm					
概算質量 Approximate mass		3 kg/km					

Our Spec. No. WS03-M051 (2/2)

4. 電気特性(20℃) (ELECTRICAL CHARACTERISTICS at 20 degree)

項目	単位	要求特性					
Item	Unit	Requirements					
導体抵抗	0.4	520以下					
Conductor Resistance	Ω/km	Max. 520					
絶縁抵抗	MΩkm	1,500 以上(DC 500V 1 分間充電後)					
Insulation Resistance	M \$2 Km	Min. 1,500 (After charge DC 500V for 1 min.)					
耐電圧	V/1min.	AC 1 000					
Dielectric Strength	V/IIIIII.	AC 1,000					
静電容量		標準 97 (at 1kHz)					
Capacitance	pF/m	Nom. 97 (at 1kHz)					
特性インピーダンス	Ω	標準 50 (TDR にて測定)					
Characteristic Impedance	22	Nom. 50 (at TDR)					

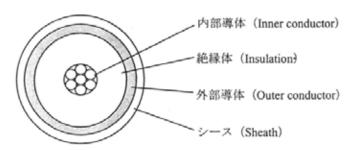


図1.ケーブル構造図

Fig.1. Cable Cross-Section

5. 梱包及び荷札の表示 (PACKING AND MARKING ON TAG)

完成品は運送中及び保管中に損傷を生じぬ荷造りをする。

また、荷札の表示は以下の通りとする。

The completed cables shall be coiled and packing in such a manner as to be adequately protected from damage during packing, shipping, and normal handling.

The following items shall be marked in the Tag which is attached to the products.

- 1) 品名 (Type of Cable)
- 2) 導体サイズ (Conductor size)
- 3) 条長 (Length)
- 4) 製造者名または略称 (Manufacturer's name or trade mark)
- 5) 製造年月 (The year and month of manufacture)

なお、完成品にはジョイントを有する場合がある。その場合は条長明細を記載する。

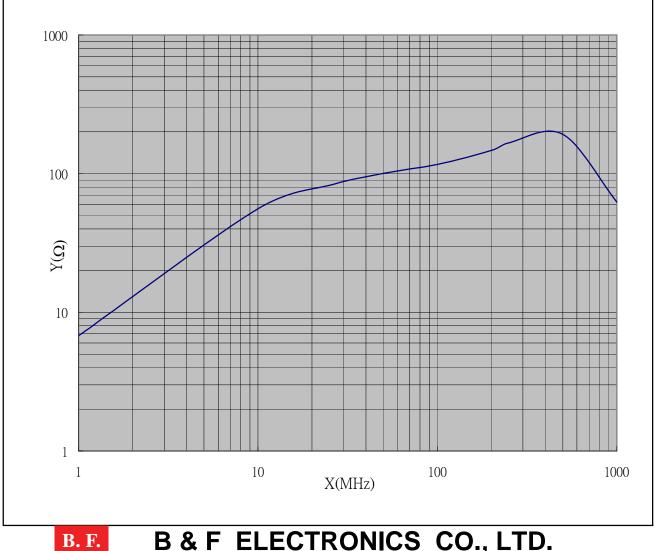
Note: The spool may contain joints. In that case, the detail of length is indicated.

SPECIFICATION

Customer : 亞 縣	麗	Item: B15 RH 3.5x9x1.3					Date : 1,OCT.05		
N	/lechanica	Asse	embly		Ref.	No : K	5B RH 3.5x9x1.3		
					A	3.50	±0.15mm		
					В	9.00	±0.30mm		
((A G				С	1.30	±0.15mm		
	7				D				
		◀——	B		E				
					F				
					G				
					Н				
			Electrical	Require	ment	•	.		
Impedance	MII	l 46	Ω	Test Fr	equa	ncy	25 MHz		
Impedance	MII	N 72	Ω	Test Fr	equa	ncy	100 MHz		
Impedance				Test Fr	equa	ncy			
Impedance				Test Fr	equa	ncy			
Test equipmer	nt: HP E4	991A		•					
					Wire	: TCV	Vφ0.65 x63 mm		
					Wind	ding :	1 Turn		
	_ /	\			Mate	erial :	B15 Nickel/Zinc		
	ŗ								
HP 16194	A TEST FIXTU	RE _	HP E4991	4					
REMARK :									
Approved by	Checke	d by	Reporte	ed by		Арр	proved by Customer		
B. F.	D 0				```	CO	LTD		
D. I.	DO		ELECTR		,	ບປ. ,	LIU.		

INSPECTION DATA

Custome	er	亞 驪		Date		1-Nov-05			
Item		B15 RH 3	.5x9x1.3		Ref. No.		K5B RH 3.5x9x1.3		
Part No.				Test Frequency		1~1000 MHz			
Test equ	Test equipment HPE4991A/16194A		Coil Spe	c.	TCWφ 0.65x63mm at 1 turn				
Impedance		Dimension (Unit : mm)							
FREQ.		25 MHz	100 MHz		А	В	С		
			100 111112		OD	HT	ID		
SPEC.		MIN	MIN		±0.15	±0.30	±0.15		
31 LO.		46Ω	72Ω		3.50	9.00	1.30		
1		82.5	116.4		3.54	9.11	1.39		
2		82.9	116.8		3.56	9.05	1.37		
3		83.2	117.5		3.55	9.08	1.40		
4		82.6	116.9		3.53	9.09	1.36		
5		82.2	116.5		3.56	9.03	1.38		
6									
7									
8									
9									
10									
Х									
R									



CHARIOT TECHNOLOGY CORP

9F,No7, Lane48, Hsin Ho St, Hsin Tien City, 231Taipei Hsien, Taiwan, ROC TEL(886)2-2941-9818 FAX(886)2-2941-9722

PRODUCT SPECIFICATION

FEBULARY 16, 2001

1st Edition

1. APPLICABLE SPECIFICATION

(1) This specification covers the requirements for Flexible Heat-Shrinkable Polyolefin Cross-Link Tubing Class I

(2) Voltage 150V Temperature 125°C Rating

2. REFERENCE STANDARD

(1) UL224 : Extruded Insulating Tubing

(2) CSA C22.2 NO.198.1-99 : Extruded Insulating Tubing

3. SHRIKABLE PROPERTIES

(1) Radial shrinkage : 50% min.

(2) Longitudinal shrinkage: -10% max.
(3) Minimum shrink temperature: 90°C

4. Product Name

(1) Heat-Shrinkable Tubing LHS-125FR-4

5. STANDARD SIZE

	Size as sur	oplies (mm)	Size as rec	Standard	
Nominal Size (mm)	Inside Diameter	Wall Thickness	Maximum Inside Dimeter	Minimum Wall Thickness	Length (M)
0.8 X 0.1	1.25 ± 0.15	0.10	0.40	0.20	200
1.0 X 0.1	1.4 ± 0.2	0.10	0.50	0.20	200
1.5 X 0.1	1.9 ± 0.2	0.10	0.75	0.20	200
2.0 X .01	2.4 ± 0.2	0.10	1.00	0.20	200
2.5 X 0.15	2.9 ± 0.2	0.15	1.25	0.25	200
3.0 X 0.15	3.4 ± 0.2	0.15	1.50	0.25	200
3.5 X 0.15	3.9 ± 0.3	0.15	1.75	0.25	200
4.0 X 0.15	4.4 ± 0.3	0.15	2.00	0.25	200
5.0 X 0.15	5.4 ± 0.3	0.15	2.50	0.25	100
6.0 X 0.15	6.5 ± 0.4	0.15	3.00	0.28	100
7.0 X 0.15	7.5 ± 0.4	0.15	3.50	0.28	100
8.0 X 0.15	8.5 ± 0.4	0.15	4.00	0.28	100
9.0 X 0.15	9.5 ± 0.4	0.15	4.50	0.28	100
10.0 X 0.15	10.5 ± 0.4	0.15	5.00	0.28	100

6. CHARACTERISTICS

Property	Test Condition	Values
Specific gravity		1.31
Tensile strength		1.05kg/mm²
Elongation		200% min.
Tensile strength after aging	158°C x 7days	Retains min.70% of original value
Elongation after aging	and	100% min.
Flexibility	134℃ x 60days	No crack
Deformation	125℃ x 1hr	50% max.
Heat shock	138℃ x 1hr	No crack
Cold bend	-30°C x 1hr	No crack
Corrosion of bare copper	Aging at 158°C x 7days after	No dicoloration or corrosion of copper
Copper stability	humidity conditioned for 1day	100% min. elongation
Flammability		Self-extinguish satisfied VW-1
Dielectric withstand		No breakdown for 60 sec. At 2.5kV (AC)
Breakdown voltage		2.5kV (AC) min.
Dielectric withstand after aging	450% w 7days and 424% w 60days	No breakdown for 60 sec. At 2.5kV (AC)
breakdown voltage after aging	-158℃ x 7days and 134℃ x 60days	2.5kV (AC) min. and retains min. 40% of original value
Volumn resistvivity		10 ¹⁴ Ω -CM min.

7. MARKING

The following information shall be legible cleanly by durably ink-printed on the surface of the tubing.

- (1) UL FILE NO.
- (2) Manufactue's name
- (3) Flame retardant test class
- (4) Temperature Rating
- (5) Nominal Size of the tubing
- (6) Maximum recovered inside diameter
- (7) Type designnation

(Example)

9\ E56118 LHS-125FR-4 VW-1 125°C LONGWELL CSA "HS X PO" (A/B)

8.PACKING

This standard length given in the Construction table. Other length are available upon special need not to be danaged during transporting and storage.



P.T. NEW CROWN METAL WORKS

JL INQUSTRISZ (MASUK JL SUCD CIRACAS - JAKARYA TIMUR (13750) - INDONESIA TELP. : 8400374 (HUNTING), 8401587 - 8402531 - 8403604 FAX : (62-21) 8400895 - 57791 : 67

Report of goods analyzed internal

rod, oder

customer: SHIN TAY LONG FIVE Metal Product Co., Ltd date: 16 September 2002.

kind of goods: BRASS TUBE

size: 26 mm x 1,5 mm product standard: JIS H3300 - C2700 T-O

natt weight: 20,000 Kgs.

Chemical composition	Standard (%)	Testod (%)
Cu	63 (+ 67.0	65.18
Fe	6.95	0.01
Fe	0.05	0.02
Pb	176 dual	residual
Tensile atrength	295	385
Outer diameter	25 rain	25,05 mm
Wall thickness	1.5 rain	1.55 mm

台灣墾膠工業股份有限公司



合北市教化北路 201 號 FORMOSA PLASTIC CORPORATION 201, TUNG-HWA NORTH ROAD, TAIPEI TAIWAN, REPUBLIC OF CHINA

TEL: (02)2712-2211 FAX: (02)2718-1230 林图森:高雄縣林園鄉石化一路一之一號 TEL: (07)641-9911 FAX: (07)642-5581

<u>CERTIFICATION</u>

This is to certify that, according to Yungsox Additive Package and Company laboratory test result,

YUNGSOX 1040F

grade(s) POLYPROPYLENE meet(s) the specification promulgated by the Food and Drug Administration of United States of America (FDA) for olefin polymers in 21 code of Federal Regulation Section 177.1520, and may be safely used in articles or compounds of articles intended for use in contact with food.

Very Truly Yours

Polypropylene Division Technic Dept.



台灣塑膠工業股份有限公司 林園廠中華民國臺灣省高縣縣林園鄉石化一路一號 FORMOSA PLASTICS CORPORATION LIN-YUAN PLANT: 1, HSIH-HWA 1ST ROAD, LIN-YUAN HSIAN, KAOHSIUNG COUNTY, TAIWAN, R.O.C.

TO WHOM IT MAY CONCERN

Our Ref:TC85003

HEALTH CERTIFICATION

This is to certify that, according to Taisox Additive Package and Company laboratory test result, Taisox 9001, Taisox 9002, Taisox 9003, Taisox 8003, Taisox 8010, Taisox 8050, and Taisox 7200 grades Polyethylene meet the specifications promulgated by the Food and Drug Administration of United States of America (FDA) for olefin polymers in 21 code of Federal Regulation Section 177, 1520, and may be safely used in articles or compounds of articles intended for use in contact with food.

Very Truly Yours

Polyolefin Division

Manager Technical Dept.

Tong Kuen Wu

RoHS REPORT INDEX-RFA-02-C14H1-06-200C

	NAME	供應商	RoHS report
	Antenna Shell/Hinge-ABS PA757	CHI MEI CORPORATION	KA/2007C2081
2	MHF SERIES CONNECTORS-20278-111R-13(I-PEX)		
2-1	MHF RECE. CONTACT-GOLDEN COLORED METAL	I-PEX JP CO., LTD.	CS/2007/46149
2-2	MHF PLUG HOUSING-WHITE PLASTIC	I-PEX JP CO., LTD.	CS/2007/46123
2-3	MHF PLUG HOUSING-BLACK PLASTIC	I-PEX JP CO., LTD.	CS/2007/46124
2-4	MHF RECE. GROUND CONTACT-GOLDEN COLORED	I-PEX JP CO., LTD.	CS/2007/46148
	METAL		
3	Cable-1.13		
3-1	GRAY PLASTIC JACKET	SWCC SHOWA DEVICE TECHNOLOGY CO., LTD.	CE/2007A4663
3-2	SILVER COLORED METAL FOIL	SWCC SHOWA DEVICE TECHNOLOGY CO., LTD.	CE/2007A4664
3-3	TRANSPARENT PLASTIC	SWCC SHOWA DEVICE TECHNOLOGY CO., LTD.	CE/2007A4665
3-4	SILVER COLORED METAL WIRE	SWCC SHOWA DEVICE TECHNOLOGY CO., LTD.	CE/2007A4666
4	Ferrite Core-4x10x2	B&F ELECTRONICS CO., LTD.	CE/2007/75462
5	POLYOLEFIN HEAT SHRINKABLE TUBE(LONGWELL)	ZHI YAN ELECTRONICS CO., LTD	CE/2006/63742
9	COOPER TUBE	唐正企業有限公司	CE/2007/72824
7	固定座-PE	ARISTOTLE ENTERPRISES INC.	KA/2007/A2730



No.: KA/2007/C2081

Date: 2008/01/02 Page: 1 of 5

CHI MEI CORPORATION. 59-1 SAN CHIA, JEN TE TAINAN COUNTY, TAIWAN.

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

Sample Description

ACRYLONYTRILE-BUTADIENE-STYRENE COPOLYMER

Style/Item No.

POLYLAC® PA-757

Color

NATURE

Sample Receiving Date

2007/12/20

Testing Period

2007/12/20 TO 2008/1/2

Test Requested

: In accordance with the RoHS Directive 2002/95/EC, and its

amendment directives.

Test Method

- (1) With reference to US EPA 3052 for Cadmium Content. Analysis was performed by ICP-AES.
- (2) With reference to US EPA Method 3052 for Lead Content. Analysis was performed by ICP-AES.
- With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.
- With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry.
- With reference to US EPA 3540C for PBBs/PBDEs Content. Analysis was performed by GC/MS.

Test Result(s)

Please refer to next page(s).

Katherine Ho / Supervisor Signed for and on behalf of SGS Taiwan Limited

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TW5950925



No.: KA/2007/C2081

Date: 2008/01/02 Page: 2 of 5

CHI MEI CORPORATION. 59-1 SAN CHIA JEN TE TAINAN COUNTY TAIWAN.

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

Test Item (s):	Method	Result	MDL
i est itelli (s).	(Refer to)	No.1	ן ואוטב
Cadmium (Cd)	(1)	n.d.	2
Lead (Pb)	(2)	n.d.	2
Mercury (Hg)	(3)	n.d.	2
Hexavalent Chromium Cr(VI) by alkaline	(4)	n.d.	2
extraction			
Sum of PBBs		n.d.	5
Monobromobiphenyl Dibasasabishasad			
Dibromobiphenyl		n.d.	5
Tribromobiphenyl		n.d.	5
Tetrabromobiphenyl		n.d.	5
Pentabromobiphenyl		n.d.	5
Hexabromobiphenyl		n.d.	5
Heptabromobiphenyl		n.d.	5
Octabromobiphenyl		n.d.	5
Nonabromobiphenyl		n.d.	5
Decabromobipheny!		n.d.	5
Sum of PBDEs (Mono to Nona)(Note 4)	(5)	n.d.	
Monobromobiphenyl ether	, ,	n.d.	5
Dibromobiphenyl ether		n.d.	5
Tribromobiphenyl ether		n.d.	5
Tetrabromobiphenyl ether		n.d.	5
Pentabromobiphenyl ether		n.d.	5
Hexabromobiphenyl ether		n.d.	5
Heptabromobiphenyl ether		n.d.	5
Octabromobiphenyl ether		n.d.	5
Nonabromobiphenyl ether		n.d.	5
Decabromobiphenyl ether		n.d.	5
Sum of PBDEs (Mono to Deca)		n.d.	T -

TEST PART DESCRIPTION:

NO.1

NATURE PLASTIC PELLETS

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TW5950924



No.: KA/2007/C2081

Date: 2008/01/02 Page: 3 of 5

CHI MEI CORPORATION. 59-1 SAN CHIA, JEN TE TAINAN COUNTY, TAIWAN.

Note: 1. mg/kg = ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. According to 2005/717/EC DecaBDE is exempt.

5. " - " = Not Regulated



No.: KA/2007/C2081

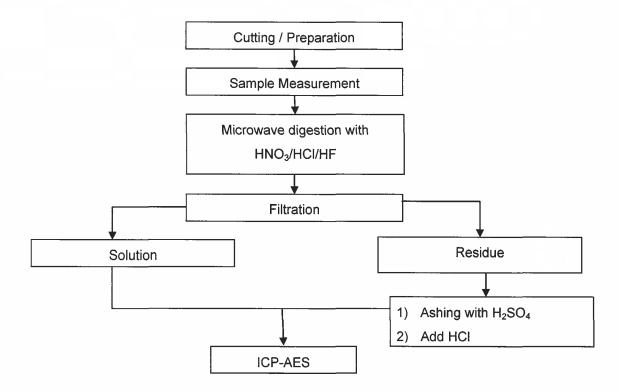
Date: 2008/01/02 Page: 4 of 5

CHI MEI CORPORATION. 59-1 SAN CHIA, JEN TE TAINAN COUNTY, TAIWAN.

Per requirements of SONY QAR-05-002:

- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) Name of the person who made measurement: Hungming Li
- 3) Name of the person in charge of measurement: George Huang

Flow Chart of Digestion for Plastic -EPA3052 for Pb · Cd (residue left)



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TW 5950922



No.: KA/2007/C2081

Date: 2008/01/02 Page: 5 of 5

CHI MEI CORPORATION. 59-1 SAN CHIA, JEN TE TAINAN COUNTY, TAIWAN.



** End of Report **

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TW5950921

SGS REPORT

SUBJECT: Survey for Environmental-Related Substances

I-PEX Co.,Ltd.Japan

This ia applied for the following products:

I-PEX Product Name	I-PEX Part Number		
MHF PLUG Connector	20278-111R-08 20278-111R-13 20278-111R-32 20278-111R-18 20351-111R-37		

Attachment:

Survey Form on Environmental Impact Substances Contained in Parts and Materials SGS TEST REPORT for MHF PLUG connector

Please refer to the attached SGS REPORT.

Component name	SGS Report No.
HOUSING-Black	CE_2008_31207
HOUSING-White	CE_2008_31209
CONTACT	CE_2008_31217
GROUND CONTACT	CE_2008_31216

Remark:* The SGS Test Report can be applied to a component.

Rev.2

I-PEX Co.,Ltd.
Sheet 1 of 1



No.: CE/2008/31207 Date: 2008/03/10 Page: 1 of 10

I-PEX JP CO., LTD.

6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN

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

Sample Description : MHF PLUG HOUSING

Style/Item No. : 1844-011 Sample Receiving Date : 2008/03/05

Testing Period : 2008/03/05 TO 2008/03/10

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

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



No.: CE/2008/31207 Date: 2008/03/10 Page: 2 of 10

I-PEX JP CO., LTD.

6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN

Test Result(s)

PART NAME NO.1 : BLACK PLASTIC

Test Item (s):	Unit	Method	MDL	Result
. ,	Offic			No.1
Cadmium (Cd)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Cadmium by ICP-AES.	2	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Lead by ICP-AES.	2	23
Mercury (Hg)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Mercury by ICP-AES.	2	n.d.
Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry.	2	n.d.
Antimony (Sb)	mg/kg	With reference to US EPA Method 3050B for Antimony Content. Analysis was performed by ICP-AES.	2	43800
Antimony trioxide (Sb ₂ O ₃)	mg/kg	With reference to US EPA Method 3050B for Antimony Content. Analysis was performed by ICP-AES. (See Note 7)	2.4	52433
PFOA	mg/kg	With reference to US EPA 3540C: 1996 method for PFOA Content. Analysis was performed by LC/MS.	1	n.d.



No.: CE/2008/31207 Date: 2008/03/10 Page: 3 of 10

I-PEX JP CO., LTD. 6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN

Test Item (s):	Unit	Method	MDL	Result
. ,			IVIDE	No.1
PFOS	mg/kg	With reference to US EPA	1	n.d.
		3540C : 1996 method for PFOS		
		Content. Analysis was performed by LC/MS.		
Sum of PBBs		performed by LC/MG.		n.d.
Monobromobiphenyl	1		5	n.d.
Dibromobiphenyl	†		5	n.d.
Tribromobiphenyl	1		5	n.d.
Tetrabromobiphenyl	1		5	n.d.
Pentabromobiphenyl	1		5	n.d.
Hexabromobiphenyl			5	n.d.
Heptabromobiphenyl			5	n.d.
Octabromobiphenyl	1		5	n.d.
Nonabromobiphenyl	1		5	n.d.
Decabromobiphenyl	1	With reference to IEC	5	n.d.
Sum of PBDEs (Mono to Nona)	700 Gr/14 Gr	62321/2nd CDV (111/95/CDV).	-	n.d.
(Note 4)	mg/kg	Determination of PBB and		
Monobromobiphenyl ether	1	PBDE by GC/MS.	5	n.d.
Dibromobiphenyl ether	1		5	n.d.
Tribromobiphenyl ether			5	n.d.
Tetrabromobiphenyl ether			5	n.d.
Pentabromobiphenyl ether			5	n.d.
Hexabromobiphenyl ether			5	n.d.
Heptabromobiphenyl ether			5	n.d.
Octabromobiphenyl ether]		5	n.d.
Nonabromobiphenyl ether]		5	n.d.
Decabromobiphenyl ether]		5	n.d.
Sum of PBDEs (Mono to Deca)			-	n.d.



No.: CE/2008/31207 Date: 2008/03/10 Page: 4 of 10

I-PEX JP CO., LTD.
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN

Test Item (s):	Unit	Method	MDL	Result
rest item (s).	Offic	Metriod	WIDL	No.1
Halogen		With reference to BS EN 14582:2007. Analysis was performed by IC method for F, CI, Br, I content.	-	
Halogen-Fluorine (F) (CAS No.: 007782-41-4)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC method for Fluorine content.	50	1520
Halogen-Chlorine (CI) (CAS No.: 007782-50-5)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC method for Chlorine content.	50	n.d.
Halogen-Bromine (Br) (CAS No.: 007726-95-6)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC method for Bromine content.	50	56900
Halogen-Iodine (I) (CAS No.: 007553-56-2)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC method for lodine content.	50	n.d.

Note: 1. mg/kg = ppm

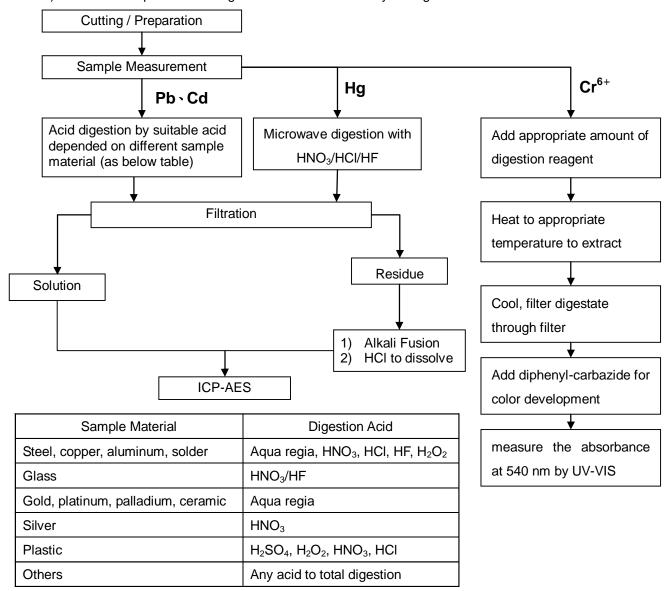
- 2. n.d. = Not Detected
- 3. MDL = Method Detection Limit
- 4. According to 2005/717/EC DecaBDE is exempt.
- 5. "---" = Not Conducted
- 6. " " = Not Regulated
- 7. Antimony trioxide(Sb₂O₃): Calculate from antimony content multiply 1.197 factor.



No.: CE/2008/31207 Date: 2008/03/10 Page: 5 of 10

I-PEX JP CO., LTD.
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN

- These samples were dissolved totally by pre-conditioning method according to below flow chart.
 (Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Chenyu Kung

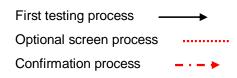


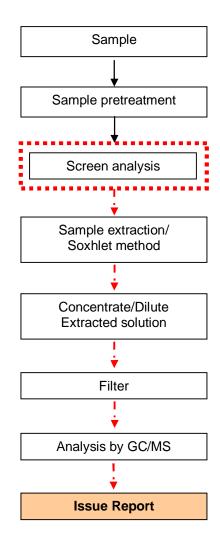


No.: CE/2008/31207 Date: 2008/03/10 Page: 6 of 10

I-PEX JP CO., LTD.
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN

PBB/PBDE analytical FLOW CHART



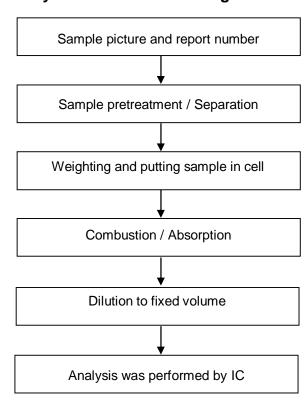




No.: CE/2008/31207 Date: 2008/03/10 Page: 7 of 10

I-PEX JP CO., LTD.
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN

Analytical flow chart of halogen content

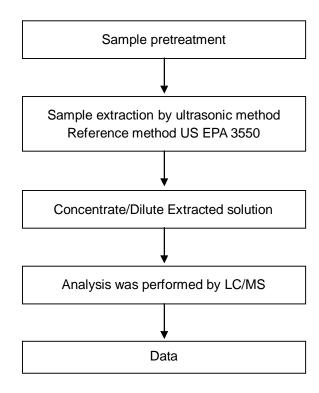




I-PEX JP CO., LTD. 6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



Analytical flow chart of PFOA/PFOS content





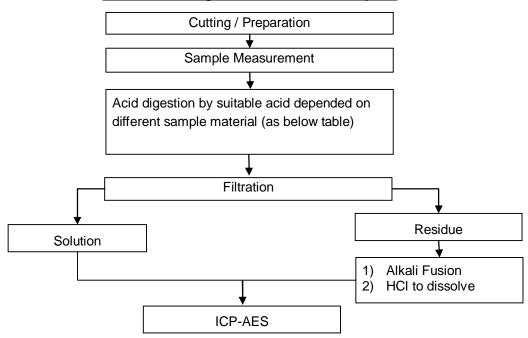
No.: CE/2008/31207 Date: 2008/03/10 Page: 9 of 10

I-PEX JP CO., LTD. 6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Chenyu Kung

Flow Chart of Digestion for elements analysis



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



No.: CE/2008/31207 Date: 2008/03/10 Page: 10 of 10





** End of Report **



No.: CE/2008/31209 Date: 2008/03/10 Page: 1 of 10

I-PEX JP CO., LTD. 6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN

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

MHF PLUG HOUSING Sample Description

Style/Item No. 1844-013 Sample Receiving Date 2008/03/05

Testing Period 2008/03/05 TO 2008/03/10

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

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



No.: CE/2008/31209 Date: 2008/03/10 Page: 2 of 10

I-PEX JP CO., LTD. 6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN

Test Result(s)

PART NAME NO.1 WHITE PLASTIC

Test Item (s): Unit		Method	MDL	Result
Test Item (s):	Onit	Wethod	MIDL	No.1
Cadmium (Cd)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Cadmium by ICP-AES.	2	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Lead by ICP-AES.	2	20
Mercury (Hg)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Mercury by ICP-AES.	2	n.d.
Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry.	2	n.d.
Antimony (Sb)	mg/kg	With reference to US EPA Method 3050B for Antimony Content. Analysis was performed by ICP-AES.	2	42400
Antimony trioxide (Sb ₂ O ₃)	mg/kg	With reference to US EPA Method 3050B for Antimony Content. Analysis was performed by ICP-AES. (See Note 7)	2.4	50757
PFOA	mg/kg	With reference to US EPA 3540C: 1996 method for PFOA Content. Analysis was performed by LC/MS.	1	n.d.



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Test Item (s): Ur		Method	MDL	Result
. ,	Unit		IVIDL	No.1
PFOS	mg/kg	With reference to US EPA	1	n.d.
		3540C : 1996 method for PFOS		
		Content. Analysis was		
O		performed by LC/MS.		1
Sum of PBBs			- 1	n.d.
Monobromobiphenyl			5	n.d.
Dibromobiphenyl			5	n.d.
Tribromobiphenyl			5	n.d.
Tetrabromobiphenyl			5	n.d.
Pentabromobiphenyl			5	n.d.
Hexabromobiphenyl			5	n.d.
Heptabromobiphenyl			5	n.d.
Octabromobiphenyl			5	n.d.
Nonabromobiphenyl			5	n.d.
Decabromobiphenyl		With reference to IEC	5	n.d.
Sum of PBDEs (Mono to Nona)	1 "	62321/2nd CDV (111/95/CDV).	-	n.d.
(Note 4)	mg/kg	Determination of PBB and		
Monobromobiphenyl ether	1	PBDE by GC/MS.	5	n.d.
Dibromobiphenyl ether			5	n.d.
Tribromobiphenyl ether			5	n.d.
Tetrabromobiphenyl ether			5	n.d.
Pentabromobiphenyl ether			5	n.d.
Hexabromobiphenyl ether	1		5	n.d.
Heptabromobiphenyl ether	1		5	n.d.
Octabromobiphenyl ether	1		5	n.d.
Nonabromobiphenyl ether	1		5	n.d.
Decabromobiphenyl ether	1		5	n.d.
Sum of PBDEs (Mono to Deca)			-	n.d.



I-PEX JP CO., LTD.
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN

Test Item (s):	Unit	Method	MDL	Result
rest item (s).	Offic	Metriod	WIDL	No.1
Halogen	With reference to BS EN 14582:2007. Analysis was performed by IC method for F, CI, Br, I content.		-	
Halogen-Fluorine (F) (CAS No.: 007782-41-4)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC method for Fluorine content.	50	1460
Halogen-Chlorine (CI) (CAS No.: 007782-50-5)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC method for Chlorine content.	50	n.d.
Halogen-Bromine (Br) (CAS No.: 007726-95-6)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC method for Bromine content.	50	41400
Halogen-Iodine (I) (CAS No.: 007553-56-2)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC method for lodine content.	50	n.d.

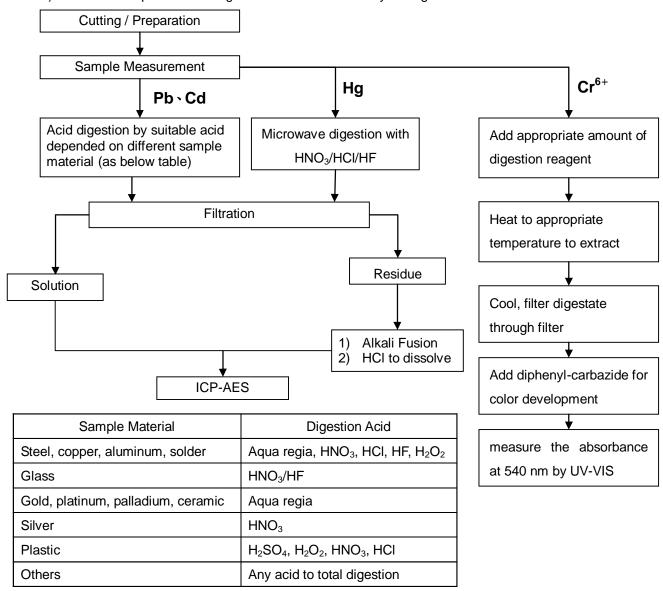
Note: 1. mg/kg = ppm

- 2. n.d. = Not Detected
- 3. MDL = Method Detection Limit
- 4. According to 2005/717/EC DecaBDE is exempt.
- 5. "---" = Not Conducted
- 6. " " = Not Regulated
- 7. Antimony trioxide(Sb₂O₃): Calculate from antimony content multiply 1.197 factor.



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- These samples were dissolved totally by pre-conditioning method according to below flow chart.
 (Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Chenyu Kung

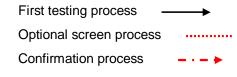


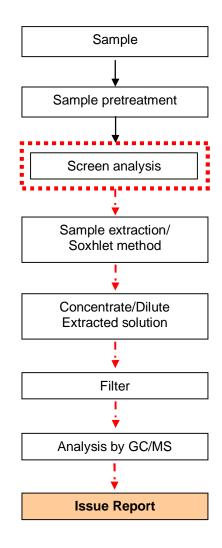


I-PEX JP CO., LTD. 6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN



PBB/PBDE analytical FLOW CHART



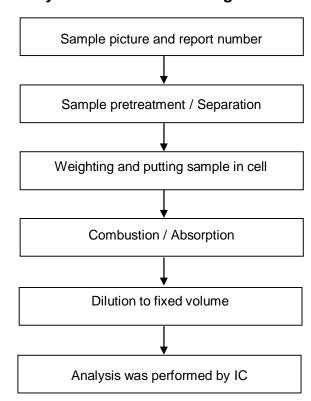




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I-PEX JP CO., LTD. 6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN

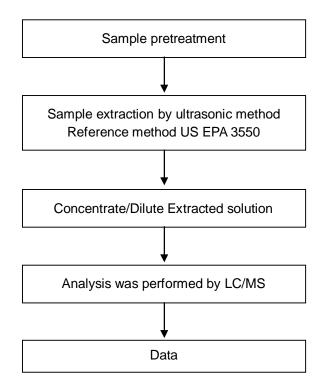
Analytical flow chart of halogen content





I-PEX JP CO., LTD. 6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN

Analytical flow chart of PFOA/PFOS content



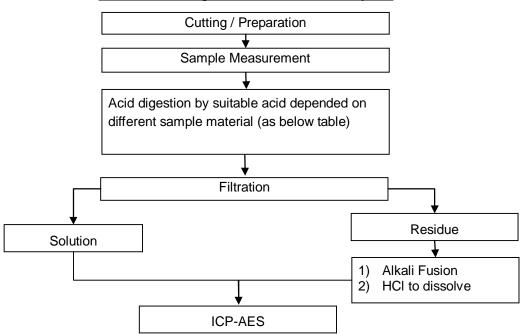


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I-PEX JP CO., LTD.
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN

- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Chenyu Kung

Flow Chart of Digestion for elements analysis



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



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** End of Report **



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I-PEX JP CO., LTD.

6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN

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

Sample Description : MHF PLUG CONTACT

Style/Item No. : 1845-0**
Sample Receiving Date : 2008/03/05

Testing Period : 2008/03/05 TO 2008/03/10

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

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



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I-PEX JP CO., LTD.
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN

Test Result(s)

PART NAME NO.1 : GOLDEN COLORED METAL (INCLUDING THE PLATING

LAYER)

Test Item (s):	Unit	Method	MDL	Result
	O.I.I.	Metriod	IIIDE	No.1
Cadmium (Cd)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Cadmium by ICP-AES.	2	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Lead by ICP-AES.	2	20
Mercury (Hg)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Mercury by ICP-AES.	2	n.d.
Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Hexavalent Chromium by UV/Vis Spectrometry.	2	n.d.
Gold (Au)	mg/kg	With reference to US EPA Method 3050B for Gold Content. Analysis was performed by ICP- AES.	2	6390
Nickel (Ni)	mg/kg	With reference to US EPA Method 3050B for Nickel Content. Analysis was performed by ICP-AES.	2	47400

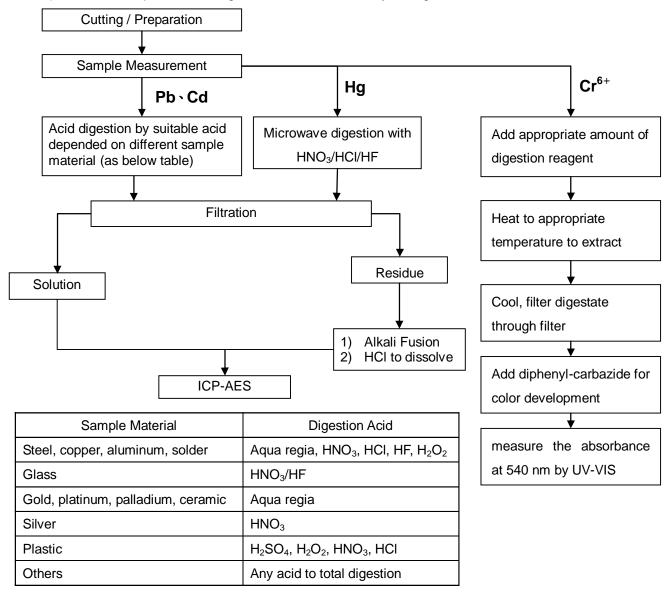
Note: 1. mg/kg = ppm

- 2. n.d. = Not Detected
- 3. MDL = Method Detection Limit
- 4. The sample(s) was/were analyzed on behalf of the applicant as mixing sample in one testing. The above result(s) was/were only given as the informality value.



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- These samples were dissolved totally by pre-conditioning method according to below flow chart.
 (Cr6+ test method excluded)
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Chenyu Kung



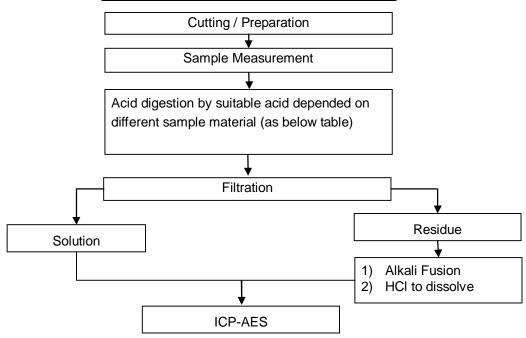


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I-PEX JP CO., LTD.
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN

- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Chenyu Kung

Flow Chart of Digestion for elements analysis



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







** End of Report **



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I-PEX JP CO., LTD.

6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN

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

MHF PLUG GROUND CONTACT Sample Description

Style/Item No. 1846-0** Sample Receiving Date 2008/03/05

Testing Period 2008/03/05 TO 2008/03/10

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

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



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I-PEX JP CO., LTD. 6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN

Test Result(s)

GOLDEN COLORED METAL (INCLUDING THE PLATING PART NAME NO.1

LAYER)

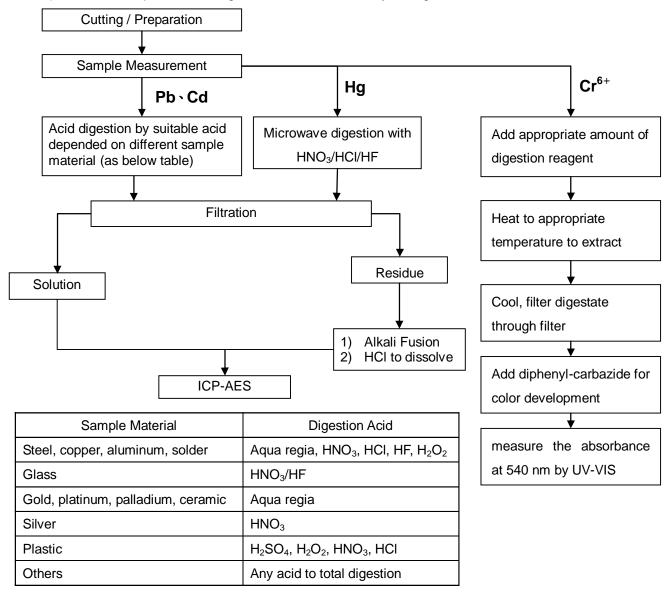
Test Item (s):	Unit	Method	MDL	Result
rest item (s).	Offic	Wetriod	WIDE	No.1
Cadmium (Cd)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Cadmium by ICP-AES.	2	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Lead by ICP-AES.	2	17
Mercury (Hg)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Mercury by ICP-AES.	2	n.d.
Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Hexavalent Chromium by UV/Vis Spectrometry.	2	n.d.
Gold (Au)	mg/kg	With reference to US EPA Method 3050B for Gold Content. Analysis was performed by ICP-AES.	2	2070
Nickel (Ni)	mg/kg	With reference to US EPA Method 3050B for Nickel Content. Analysis was performed by ICP-AES.	2	20600

Note: 1. mg/kg = ppm

- 2. n.d. = Not Detected
- 3. MDL = Method Detection Limit
- 4. The sample(s) was/were analyzed on behalf of the applicant as mixing sample in one testing. The above result(s) was/were only given as the informality value.



- These samples were dissolved totally by pre-conditioning method according to below flow chart.
 (Cr6+ test method excluded)
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Chenyu Kung



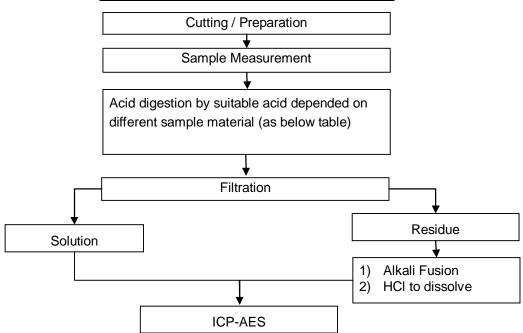


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I-PEX JP CO., LTD.
6-27-19 HARAMACHIDA MACHIDA-CITY TOKYO 194-0013 JAPAN

- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Chenyu Kung

Flow Chart of Digestion for elements analysis



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



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** End of Report **



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LANTERRA INDUSTRIAL CO., LTD.

F. 14, NO. 92, SHING TEH RD., SAN CHUNG CITY, TAIPEI, TAIWAN

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

Sample Description KHCX-32AWG-SB-TA, KHCX-30AWG-SB-TA,

KHCX-36AWG-SB-TA

KHCX-32AWG-SB-TA, KHCX-30AWG-SB-TA, Style/Item No.

KHCX-36AWG-SB-TA

Other Info. GRAY JACKET Sample Receiving Date 2007/10/22 :

Testing Period 2007/10/22 TO 2007/10/31

In accordance with the RoHS Directive 2002/95/EC, and its Test Requested

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-AES.

(2) Determination of Lead by ICP-AES.

(3) Determination of Mercury by ICP-AES.

(4) Determination of Hexavalent Chromium for non-metallic

samples by UV/Vis Spectrometry.

(5) Determination of PBB and PBDE by GC/MS

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

Based on the performed tests on submitted samples, the test Conclusion

results are compliant with the limits of RoHS Directive

2002/95/EC and its subsequent amendments.

Chenyu Kung / Operation Manager Signed for and on behalf of

SGS TAIWAN LTD.

Chemical Laboratory - Taipei



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LANTERRA INDUSTRIAL CO., LTD. F. 14, NO. 92, SHING TEH RD., SAN CHUNG CITY, TAIPEI, TAIWAN

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

Test Item (s):	Method	Result	MDL	RoHS
	(Refer to)	No.1		Limit
Cadmium (Cd)	(1)	n.d.	2	100
Lead (Pb)	(2)	n.d.	2	1000
Mercury (Hg)	(3)	n.d.	2	1000
Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	2	1000
Sum of PBBs		n.d.	4.5	1000
Monobromobiphenyl		n.d.	5	-
Dibromobiphenyl		n.d.	5	0+7
Tribromobiphenyl		n.d.	5	7 4 4
Tetrabromobiphenyl		n.d.	5	-
Pentabromobiphenyl		n.d.	5	
Hexabromobiphenyl		n.d.	5	73 4 1
Hentabromobiphenyl Octabromobiphenyl		n d n.d.	5 5	-
Nonabromobiphenyl	1	n.d.	5	-
Decabromobiphenyl		n.d.	5	-
Sum of PBDEs (Mono to Nona) (Note 4)	(5)	n.d.	-	1000
Monobromobiphenyl ether		n.d.	5	-
Dibromobiphenyl ether		n.d.	5	-
Tribromobiphenyl ether		n.d.	5	-
Tetrabromobiphenyl ether		n.d.	5	-
Pentabromobiphenyl ether		n.d.	5	-
Hexabromobiphenyl ether		n.d.	5	-
Heptabromobiphenyl ether		n.d.	5	-
Octabromobiphenyl ether		n.d.	5	-
Nonabromobiphenyl ether		n.d.	5	-
Decabromobiphenyl ether		n.d.	5	-
Sum of PBDEs (Mono to Deca)		n.d.	-	-

TEST PART DESCRIPTION:

GRAY PLASTIC JACKET NO.1

Note: 1. mg/kg = ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. According to 2005/717/EC DecaBDE is exempt.

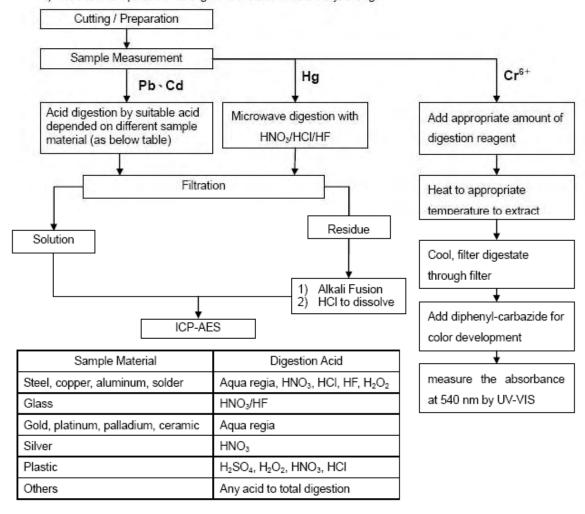
5. "-" = Not Regulated



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LANTERRA INDUSTRIAL CO., LTD. F. 14, NO. 92, SHING TEH RD., SAN CHUNG CITY, TAIPEI, TAIWAN

- These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ test method excluded)
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Chenyu Kung

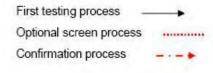


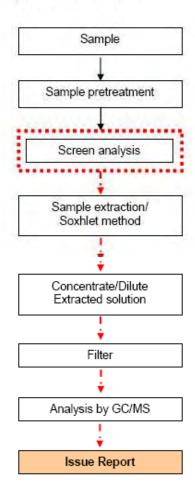


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LANTERRA INDUSTRIAL CO., LTD. F. 14, NO. 92, SHING TEH RD., SAN CHUNG CITY, TAIPEI, TAIWAN

PBB/PBDE analytical FLOW CHART







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LANTERRA INDUSTRIAL CO., LTD. F. 14, NO. 92, SHING TEH RD., SAN CHUNG CITY, TAIPEI, TAIWAN





** End of Report **



Test Report No.: CE/2007/A4664

Date: 2007/10/29

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LANTERRA INDUSTRIAL CO., LTD.

F. 14, NO. 92, SHING TEH RD., SAN CHUNG CITY, TAIPEI, TAIWAN

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

Sample Description : KHCX-32AWG-SB-TA, KHCX-30AWG-SB-TA,

KHCX-36AWG-SB-TA

Style/Item No. : KHCX-32AWG-SB-TA, KHCX-30AWG-SB-TA,

KHCX-36AWG-SB-TA

Other Info. : SILVER COLORED METAL FOIL

Sample Receiving Date : 2007/10/22

Testing Period : 2007/10/22 TO 2007/10/29

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

amendment directives.

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

Procedures for the Determination of Levels of Regulated

Substances in Electrotechnical Products.

(1) Determination of Cadmium by ICP-AES.

(2) Determination of Lead by ICP-AES.

(3) Determination of Mercury by ICP-AES.

(4) Determination of Hexavalent Chromium for metallic samples

by Spot test / Colorimetric Method.

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

Conclusion : Based on the performed tests on submitted samples, the test

results are compliant with the limits of RoHS Directive

2002/95/EC and its subsequent amendments.

Nicole Chien / Supervisor Signed for and on behalf of SGS TAIWAN LTD.

Chemical Laboratory - Taipei



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LANTERRA INDUSTRIAL CO., LTD. F. 14, NO. 92, SHING TEH RD., SAN CHUNG CITY, TAIPEI, TAIWAN Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method (Refer to)	Result No.1	MDL	RoHS Limit
Lead (Pb)	(2)	11	2	1000
Mercury (Hg)	(3)	n.d.	2	1000
Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	(4)	Negative	See Note 4	#

TEST PART DESCRIPTION:

NO.1 : SILVER COLORED METAL

Note: 1. mg/kg = ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. Spot-test:

Negative = Absence of Cr(VI) coating / surface layer,

Positive = Presence of Cr(VI) coating / surface layer;

(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 Cr(VI) coating / surface layer. Positive = Presence of Cr(VI) coating / surface layer;

the detected concentration in boiling-water-extraction solution is equal or greater

than 0.02 mg/kg with 50 cm2 sample surface area.

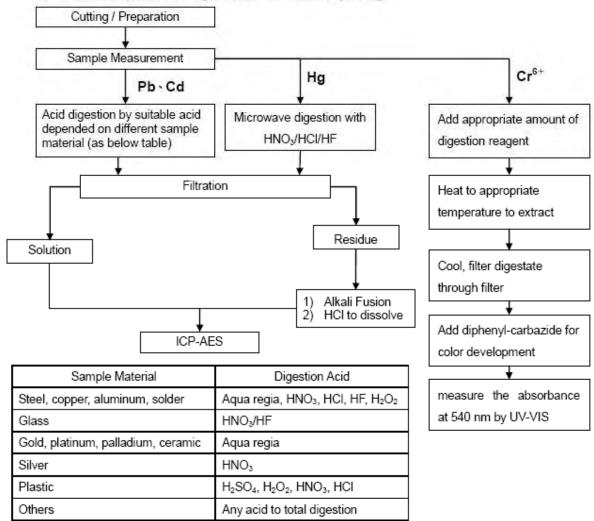
 # = Positive indicates the presence of Cr(VI) on the tested areas and result be regarded as not comply with RoHS requirement.
 Negative indicates the absence of Cr(VI) on the tested areas and result be regarded as comply with RoHS requirement.



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LANTERRA INDUSTRIAL CO., LTD. F. 14, NO. 92, SHING TEH RD., SAN CHUNG CITY, TAIPEI, TAIWAN

- These samples were dissolved totally by pre-conditioning method according to below flow chart.
 (Cr6+ test method excluded)
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Chenyu Kung





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LANTERRA INDUSTRIAL CO., LTD. F. 14, NO. 92, SHING TEH RD., SAN CHUNG CITY, TAIPEI, TAIWAN





** End of Report **



Test Report No.: CE/2007/A4665 Date: 2007/10/29 Page: 1 of 5

LANTERRA INDUSTRIAL CO., LTD. F. 14, NO. 92, SHING TEH RD., SAN CHUNG CITY, TAIPEI, TAIWAN The following sample(s) was/were submitted and identified by/on behalf of the client as:

Sample Description : KHCX-32AWG-SB-TA, KHCX-30AWG-SB-TA,

KHCX-36AWG-SB-TA

Style/Item No. : KHCX-32AWG-SB-TA, KHCX-30AWG-SB-TA,

KHCX-36AWG-SB-TA

Other Info. : TRANSPARENT PLASTIC

Sample Receiving Date : 2007/10/22

Testing Period : 2007/10/22 TO 2007/10/29

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-AES.

(2) Determination of Lead by ICP-AES.

(3) Determination of Mercury by ICP-AES.

(4) Determination of Hexavalent Chromium for non-metallic

samples by UV/Vis Spectrometry.

(5) Determination of PBB and PBDE by GC/MS.

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

Conclusion ; Based on the performed tests on submitted samples, the test

results are compliant with the limits of RoHS Directive

2002/95/EC and its subsequent amendments.

Chenyu Kung / Operation Manager Signed for and on behalf of

SGS TAIWAN LTD.

Chemical Laboratory - Taipei



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LANTERRA INDUSTRIAL CO., LTD. F. 14, NO. 92, SHING TEH RD., SAN CHUNG CITY, TAIPEI, TAIWAN Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method	Result	MDL	RoHS
	(Refer to)	No.1		Limit
Cadmium (Cd)	(1)	n.d.	2	100
Lead (Pb)	(2)	n.d.	2	1000
Mercury (Hg)	(3)	n.d.	2	1000
Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	2	1000
Sum of PBBs		n.d.	114	1000
Monobromobiphenyl		n.d.	5	-
Dibromobiphenyl		n.d.	5	· +
Tribromobiphenyl		n.d.	5	24±3
Tetrabromobiphenyl		n.d.	5	
Pentabromobiphenyl		n.d.	5	2*7
Hexabromobiphenyl		n.d.	5	1148
Heptabromobiphenyl		n.d.	5	
Octabromobiphenyl		n.d.	5	-
Nonabromobiphenyl		n.d.	5	-
Decabromobiphenyl		n.d.	5	-
Sum of PBDEs (Mono to Nona) (Note 4)	(5)	n.d.	-	1000
Monobromobiphenyl ether		n.d.	5	-
Dibromobiphenyl ether		n.d.	5	-
Tribromobiphenyl ether		n.d.	5	-
Tetrabromobiphenyl ether		n.d.	5	-
Pentabromobiphenyl ether		n.d.	5	-
Hexabromobiphenyl ether		n.d.	5	-
Heptabromobiphenyl ether		n.d.	5	-
Octabromobiphenyl ether		n.d.	5	-
Nonabromobiphenyl ether		n.d.	5	-
Decabromobiphenyl ether		n.d.	5	-
Sum of PBDEs (Mono to Deca)		n.d.	-	-

TEST PART DESCRIPTION:

NO.1 TRANSPARENT PLASTIC

Note: 1. mg/kg = ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. According to 2005/717/EC DecaBDE is exempt.

5. "-" = Not Regulated

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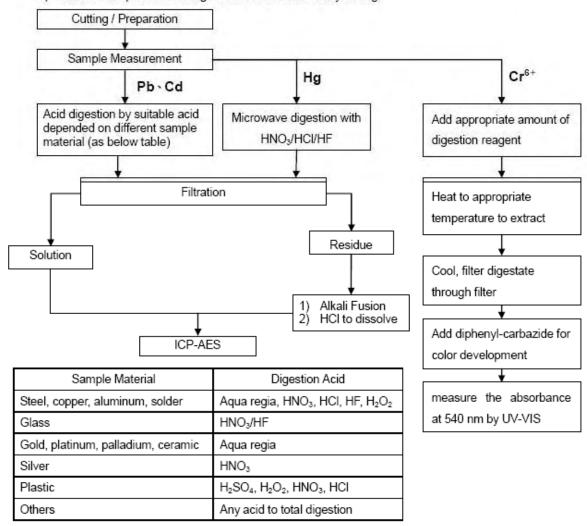
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No.: CE/2007/A4665 Date: 2007/10/29 Page: 3 of 5

LANTERRA INDUSTRIAL CO., LTD. F. 14, NO. 92, SHING TEH RD., SAN CHUNG CITY, TAIPEI, TAIWAN

- These samples were dissolved totally by pre-conditioning method according to below flow chart.
 (Cr6+ test method excluded)
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement; Chenyu Kung

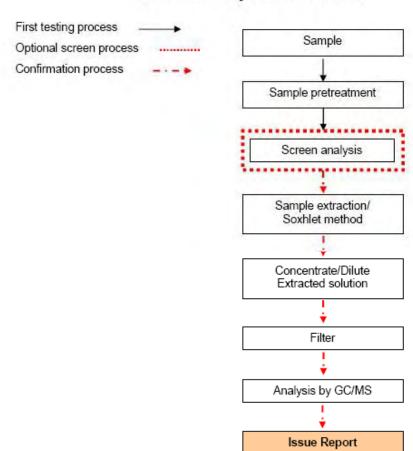




Page : 4 of 5 No.: CE/2007/A4665 Date: 2007/10/29

LANTERRA INDUSTRIAL CO., LTD. F. 14, NO. 92, SHING TEH RD., SAN CHUNG CITY, TAIPEI, TAIWAN

PBB/PBDE analytical FLOW CHART





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LANTERRA INDUSTRIAL CO., LTD. F. 14, NO. 92, SHING TEH RD., SAN CHUNG CITY, TAIPEI, TAIWAN





** End of Report **



No.: CE/2007/A4666 Date: 2007/10/29 Page : 1 of 4

LANTERRA INDUSTRIAL CO., LTD. F. 14, NO. 92, SHING TEH RD., SAN CHUNG CITY, TAIPEI, TAIWAN The following sample(s) was/were submitted and identified by/on behalf of the client as:

Sample Description KHCX-32AWG-SB-TA, KHCX-30AWG-SB-TA,

KHCX-36AWG-SB-TA

Style/Item No. KHCX-32AWG-SB-TA, KHCX-30AWG-SB-TA,

KHCX-36AWG-SB-TA

Other Info. SILVER COLORED METAL WIRE

Sample Receiving Date 2007/10/22 :

Testing Period 2007/10/22 TO 2007/10/29

In accordance with the RoHS Directive 2002/95/EC, and its Test Requested

amendment directives.

Test Method With reference to IEC 62321, Ed. 1 111/54/CDV

Procedures for the Determination of Levels of Regulated

Substances in Electrotechnical Products.

(1) Determination of Cadmium by ICP-AES.

(2) Determination of Lead by ICP-AES (3) Determination of Mercury by ICP-AES.

(4) Determination of Hexavalent Chromium for metallic samples

by Spot test / Colorimetric Method.

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

Based on the performed tests on submitted samples, the test Conclusion results are compliant with the limits of RoHS Directive

2002/95/EC and its subsequent amendments.

Nicole Chien / Supervisor Signed for and on behalf of SGS TAIWAN LTD.

Chemical Laboratory - Taipei



No.: CE/2007/A4666 Date: 2007/10/29 Page: 2 of 4

LANTERRA INDUSTRIAL CO., LTD. F. 14, NO. 92, SHING TEH RD., SAN CHUNG CITY, TAIPEI, TAIWAN Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method (Refer to)	Result	MDL	RoHS Limit
		No.1		
Cadmium (Cd)	(1)	n.d.	2	100
Lead (Pb)	(2)	n.d.	2	1000
Mercury (Hg)	(3)	n.d.	2	1000
Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	(4)	Negative	See Note 4	#

TEST PART DESCRIPTION:

NO.1 : SILVER COLORED METAL WIRE

Note: 1. mg/kg = ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

Spot-test:

Negative = Absence of Cr(VI) coating / surface layer,

Positive = Presence of Cr(VI) coating / surface layer;

(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 Cr(VI) coating / surface layer.

Positive = Presence of Cr(VI) coating / surface layer;

the detected concentration in boiling-water-extraction solution is equal or greater

than 0.02 mg/kg with 50 cm2 sample surface area.

5. # = Positive indicates the presence of Cr(VI) on the tested areas

and result be regarded as not comply with RoHS requirement.

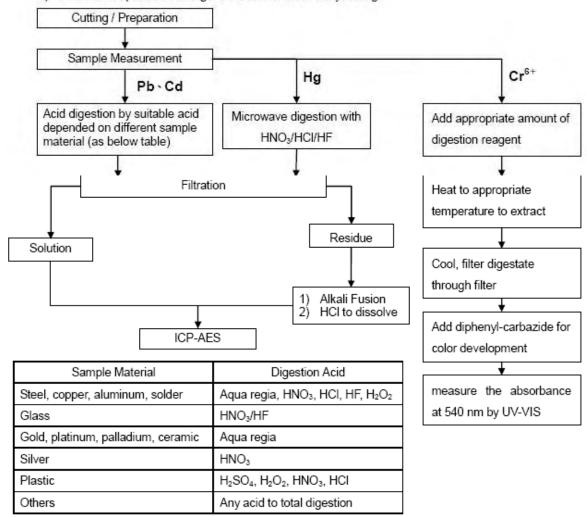
Negative indicates the absence of Cr(VI) on the tested areas and result be regarded as comply with RoHS requirement.



No.: CE/2007/A4666 Date: 2007/10/29 Page: 3 of 4

LANTERRA INDUSTRIAL CO., LTD. F. 14, NO. 92, SHING TEH RD., SAN CHUNG CITY, TAIPEI, TAIWAN

- These samples were dissolved totally by pre-conditioning method according to below flow chart.
 (Cr6+ test method excluded)
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Chenyu Kung





No.: CE/2007/A4666 Date: 2007/10/29 Page: 4 of 4

LANTERRA INDUSTRIAL CO., LTD. F. 14, NO. 92, SHING TEH RD., SAN CHUNG CITY, TAIPEI, TAIWAN



** End of Report **



No.: CE/2007/75462 Date: 2007/07/30

B&F ELECTRONICS CO., LTD. 3 LANE 240, CHUNG YANG RD. SEC. 3 TU-CHENG TAIPEI HSIEN TAIWAN Page : 1 of 4

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

Sample Description

B15

Style/Item No.

FERRITE MATERIAL

Sample Receiving Date

2007/07/23

Testing Period

2007/07/23 TO 2007/07/30

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-AES.

Determination of Lead by ICP-AES.

(3) Determination of Mercury by ICP-AES

(4) Determination of Hexavalent Chromium for metallic samples

by Spot test / Colonmetric Method.

Test Result(s)

Please refer to next page(s).

gned for and on behalf of

SGS TAIWAN LTD. Chemical Laboratory - Taipei

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No.: CE/2007/75462 Date: 2007/07/30 Page: 2 of 4

B&F ELECTRONICS CO., LTD. 3 LANE 240, CHUNG YANG RD. SEC. 3 TU-CHENG TAIPEI HSIEN TAIWAN Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method	Result	MDL
	(Refer to)	No.1	
Cadmium (Cd)	(1)	n.d.	2
Lead (Pb)	(2)	28	2
Mercury (Hg)	(3)	n.d.	2
Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	(4)	Negative	See Note 4

TEST PART DESCRIPTION:

NO.1 : IRON-GRAY METAL

Note: 1. mg/kg = ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. Spot-test:

Negative = Absence of Cr(VI) coating / surface layer,

Positive = Presence of Cr(VI) coating / surface layer;

(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 Cr(VI) coating / surface layer.

Positive = Presence of Cr(VI) coating / surface layer;

the detected concentration in boiling-water-extraction solution is equal or greater

than 0.02 mg/kg with 50 cm2 sample surface area.



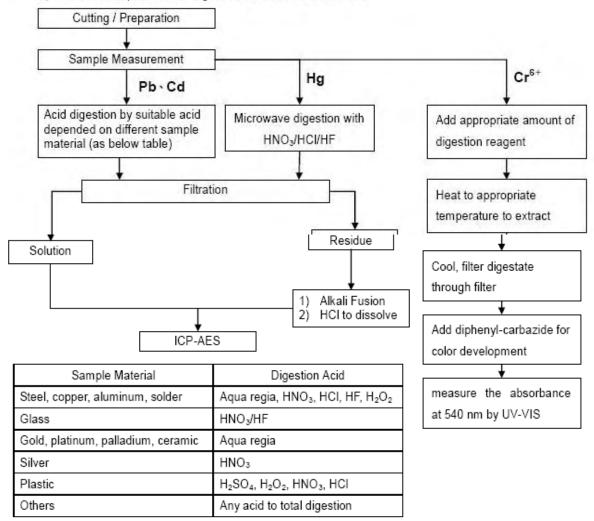
No.: CE/2007/75462 Date: 2007/07/30

Page: 3 of 4

B&F ELECTRONICS CO., LTD.

3 LANE 240, CHUNG YANG RD. SEC. 3 TU-CHENG TAIPEI HSIEN TAIWAN

- These samples were dissolved totally by pre-conditioning method according to below flow chart.
 (Cr6+ test method excluded)
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Daniel Yeh





Page : 4 of 4 No.: CE/2007/75462 Date: 2007/07/30

B&F ELECTRONICS CO., LTD. 3 LANE 240, CHUNG YANG RD. SEC. 3 TU-CHENG TAIPEI HSIEN TAIWAN





** End of Report **



No.: CE/2007/63742 Date: 2007/06/25 Page: 1 of 5

ZHI YAN ELECTRONICS CO., LTD. 11F-8, NO. 109, SEC. 1, JHONGSHAN RD., SINJHUANG CITY, TAIPEI COUNTY 242, TAIWAN (R.O.C) The following sample(s) was/were submitted and identified by/on behalf of the client as:

Sample Description : TUBE

Style/Item No. : LHS-125FR, LHS-125 FR4, GT2, GT4, GT0

Sample Receiving Date : 2007/06/15

Testing Period : 2007/06/15 TO 2007/06/25

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-AES.

(2) Determination of Lead by ICP-AES.

(3) Determination of Mercury by ICP-AES.

(4) Determination of Hexavalent Chromium for non-metallic

samples by UV/Vis Spectrometry.

(5) Determination of PBB and PBDE by GC/MS.

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

Conclusion : Based on the performed tests on submitted samples, the test

results are compliant with the limits of RoHS Directive

2002/95/EC and its subsequent amendments.

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

SGS TAIWAN LTD.

Chemical Laboratory - Taipei



No.: CE/2007/63742 Date: 2007/06/25 Page: 2 of 5

ZHI YAN ELECTRONICS CO., LTD. 11F-8, NO. 109, SEC. 1, JHONGSHAN RD., SINJHUANG CITY, TAIPEI COUNTY 242, TAIWAN (R.O.C) Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method (Refer to)	Result	MDL	RoHS
		No.1		Limit
Cadmium (Cd)	(1)	n.d.	2	100
Lead (Pb)	(2)	9	2	1000
Mercury (Hg)	(3)	n.d.	2	1000
Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	2	1000
Sum of PBBs		n.d.	-	1000
Monobromobiphenyl		n.d.	5	-
Dibromobiphenyl		n.d.	5	-
Tribromobiphenyl		n.d.	5	-
Tetrabromobiphenyl		n.d.	5	-
Pentabromobiphenyl		n.d.	5	-
Hexabromobiphenyl		n.d.	5	-
Heptabromobiphenyl		n.d.	5	-
Octabromobiphenyl		n.d.	5	-
Nonabromobiphenyl		n.d.	5	-
Decabromobiphenyl		n.d.	5	-
Sum of PBDEs (Mono to Nona) (Note 4)	(5)	n.d.	-	1000
Monobromobiphenyl ether		n.d.	5	-
Dibromobiphenyl ether		n.d.	5	-
Tribromobiphenyl ether		n.d.	5	-
Tetrabromobiphenyl ether		n.d.	5	-
Pentabromobiphenyl ether		n.d.	5	-
Hexabromobiphenyl ether		n.d.	5	-
Heptabromobiphenyl ether		n.d.	5	-
Octabromobiphenyl ether		n.d.	5	-
Nonabromobiphenyl ether		n.d.	5	-
Decabromobiphenyl ether		n.d.	5	-
Sum of PBDEs (Mono to Deca)		n.d.	-	-

TEST PART DESCRIPTION:

NO.1 : BLACK PLASTIC

Note: 1. mg/kg = ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. According to 2005/717/EC DecaBDE is exempt.

5. "-" = Not Regulated

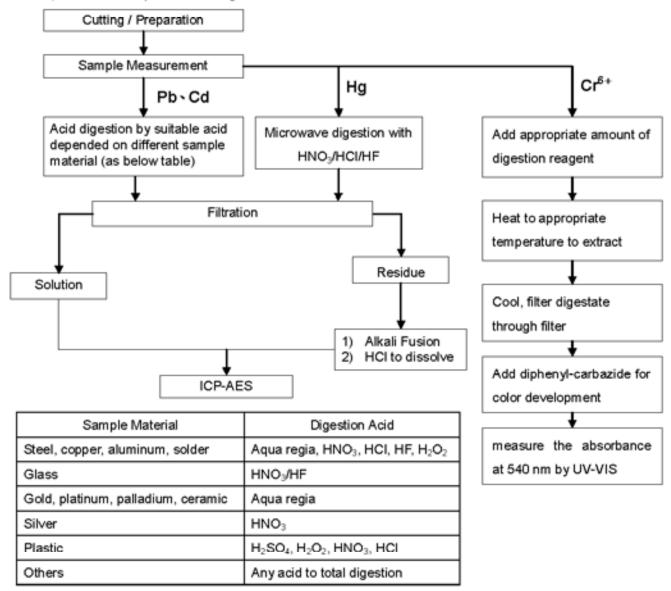
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No.: CE/2007/63742 Date: 2007/06/25 Page: 3 of 5

ZHI YAN ELECTRONICS CO., LTD. 11F-8, NO. 109, SEC. 1, JHONGSHAN RD., SINJHUANG CITY, TAIPEI COUNTY 242, TAIWAN (R.O.C)

- These samples were dissolved totally by pre-conditioning method according to below flow chart.
 (Cr6+ test method excluded)
- 2) Name of the person who made measurement: Troy Chang
- 3) Name of the person in charge of measurement: Daniel Yeh

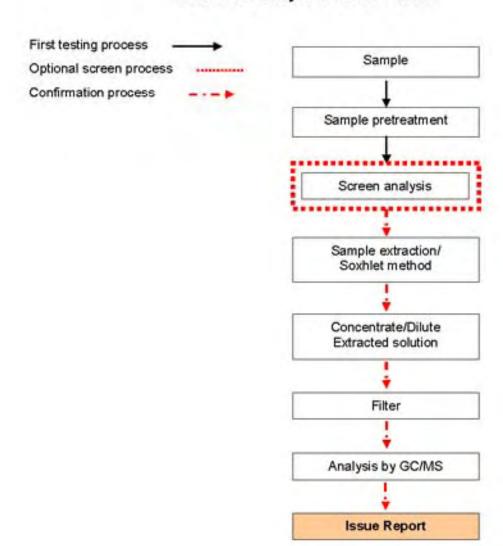




No.: CE/2007/63742 Date: 2007/06/25 Page: 4 of 5

ZHI YAN ELECTRONICS CO., LTD. 11F-8, NO. 109, SEC. 1, JHONGSHAN RD., SINJHUANG CITY, TAIPEI COUNTY 242, TAIWAN (R.O.C)

PBB/PBDE analytical FLOW CHART





No.: CE/2007/63742 Date: 2007/06/25 Page: 5 of 5

ZHI YAN ELECTRONICS CO., LTD.

11F-8, NO. 109, SEC. 1, JHONGSHAN RD., SINJHUANG CITY, TAIPEI
COUNTY 242, TAIWAN (R.O.C)



** End of Report **



測試報告

號碼: CE/2007/72824 日期: 2007/07/18

頁數: 1 of 3

磨正企業有限公司 台北縣中和市中正路861巷11號

以下測試樣品係由客户遊樣、且由客戶聲稱並經客戶確認如下:

摄品名籍

空心管實心針之黄銅材質裸面處理

收件日期

2007/07/11

测试期間

2007/07/11 TO 2007/07/18

测鼓需求

参照 RoHS 2002/95/EC 及其修定指令要求。

测试方法

参考IEC 62321, Ed. 1 111/54/CDV方法检测.

- (1) 用感應轄合電漿原子發射光譜儀(ICP-AES)檢測鍋含量.
- (2) 用感應藕合電漿原子發射光譜儀(ICP-AES)檢測鉛含量。
- (3) 用感應藕合電漿原子發射光譜儀(ICP-AES)檢測汞含量。
- (4) 針對金屬材質之樣品,用Spot test / Colorimetric方 法检测六價絡含量.

测试结果

請見下一頁.

Operation Manager gned for and on behalf of

SGS TAIWAN LTD.

Chemical Laboratory - Taipei



測試報告

號碼: CE/2007/72824

日期: 2007/07/18

頁數: 2 of 3

唐正企業有限公司 台北縣中和市中正路861巷11號 测试结果 (單位: mg/kg)

测试项目	测试方法	结果	方法侦测
79 X 4	(請參考)	No.1	極限値
鍋	(1)	3	2
鉛	(2)	64	2
汞	(3)	n.d.	2
六價絡(Spot test / boiling water	(4)	Negative	備註 4
extraction)			

测试部位描述:

NO.1 : 黄色金屬

備註: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. Spot-test:

Negative=鍍層中偵測不到六價絡, Positive=鍍層中偵測到六價絡;

當該測項無法確認時,測試樣品可藉由boiling-water-extraction測試方法進一步確認

Boiling-water-extraction:

Negative=鍵層中偵測不到六價絡, Positive=鍵層中偵測到六價絡;

該濃度溶液≧0.02 mg/kg with 50 cm² (sample surface area)



測試報告

號碼: CE/2007/72824 日期: 2007/07/18

頁數: 3 of 3

磨正企業有限公司 台北縣中和市中正路861巷11號 

** 報告結尾 **



No.: KE/2007/A2730

PE MASTERBATCH

Date: 2007/11/01 Page: 1 of 4

ARISTOTLE ENTERPRISES INC.

8FL, NO.63, JIU GUANG ROAD, CHUNG HO CITY, TAIPEI HSIEN, TAIWAN.

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

Sample Description

Style/Item No. PE-6910 Color **BLACK**

Sample Submitted By JANIE COLOR WORKS LTD.

Sample Receiving Date 2007/10/29

2007/10/29 TO 2007/11/1 **Testing Period**

Test Requested

In accordance with the RoHS Directive 2002/95/EC, and its

amendment directives.

Test Method

(1) With reference to BS EN 1122:2001, Method B for Cadmium Content. Analysis was performed by ICP-AES.

(2) With reference to US EPA Method 3050B for Lead Content. Analysis was performed by ICP-AES.

With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.

With reference to US EPA Method 3060A & 7196A for Hexavalent Chromium for non-metallic samples. Analysis was performed by UV/Vis Spectrometry.

(5) With reference to US EPA 3540C for PBBs/PBDEs Content, Analysis was performed by GC/MS.

Test Result(s)

Please refer to next page(s).

Katherine Ho / Supervisor Signed for and on behalf of

SGS Taiwan Limited

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TW5728883



No.: KE/2007/A2730

Date: 2007/11/01 Page: 2 of 4

ARISTOTLE ENTERPRISES INC. 8FL, NO.63, JIU GUANG ROAD, CHUNG HO CITY, TAIPEI HSIEN, TAIWAN.

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

Test Item (s):	Method	Result	MDI
rest item (s).	(Refer to)	No.1	MDL
Cadmium (Cd)	(1)	n.d.	2
Lead (Pb)	(2)	n.d.	2
Mercury (Hg)	(3)	n.d.	2
Hexavalent Chromium Cr(VI)	(4)	n.d.	2
Sum of PBBs		n.d.	
Monobromobiphenyl		n.d.	5
Dibromobiphenyl		n.d.	5
Tribromobiphenyl		n.d.	5
Tetrabromobiphenyl		n.d.	5
Pentabromobiphenyl		n.d.	5
Hexabromobiphenyl		n.d.	5
Heptabromobiphenyl		n.d.	5
Octabromobiphenyl		n.d.	5
Nonabromobiphenyl		n.d.	5
Decabromobiphenyl	1	n.d.	5
Sum of PBDEs (Mono to Nona)(Note 4)	(5)	n.d.	
Monobromobiphenyl ether		n.d.	5
Dibromobiphenyl ether		n.d.	5
Tribromobiphenyl ether		n.d.	5
Tetrabromobiphenyl ether		n.d.	5
Pentabromobiphenyl ether		n.d.	5
Hexabromobiphenyl ether		n.d.	5
Heptabromobiphenyl ether		n.d.	5
Octabromobiphenyl ether		n.d.	5
Nonabromobiphenyl ether		n.d.	5
Decabromobiphenyl ether		n.d.	5
Sum of PBDEs (Mono to Deca)		n.d.	-

TEST PART DESCRIPTION:

NO.1

BLACK PE MASTERBATCH

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TW5728882



No.: KE/2007/A2730

Date: 2007/11/01 Page: 3 of 4

ARISTOTLE ENTERPRISES INC. 8FL, NO.63, JIU GUANG ROAD, CHUNG HO CITY, TAIPEI HSIEN, TAIWAN.

1. mg/kg = ppmNote:

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. According to 2005/717/EC DecaBDE is exempt.

5. " - " = Not Regulated



No.: KE/2007/A2730

Date: 2007/11/01 Page: 4 of 4

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ARISTOTLE ENTERPRISES INC. 8FL, NO.63, JIU GUANG ROAD, CHUNG HO CITY, TAIPEI HSIEN, TAIWAN.



** End of Report **

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