

# 承認書

## SPECIFICATION FOR APPROVAL




使用機種： Bluetooth V2.0 EDR USB Adapter, I

品 號： 30G000000-00

品 名： Ceramic Chip Antenna

製 造 商： YAGEO

製造商型號： CAN4311153002301K

採購部門		零件承認單位		
採購承辦	主管審核	承認	審查	核准
K/ie 10/16		Alex 10/16		

注意事項：



興邦國際股份有限公司

## SPECIFICATION FOR APPROVAL

承認書

DATE / 日期 : 2009.10.20

Customer /

客戶名稱：晶訊科技股份有限公司

Description / 5320 Ceramic Chip Antenna for IEEE 802.11 b/g  
品名規格：& Blue tooth Application  
CAN43111 5300 2301K

Brand /

承認品牌：YAGEO BRAND

Spec NO. /

編號：

Vendor NO.

承認號碼：

Approval Signatures /

承認簽回：

(Please return one copy with your approval / 承認後請寄回本承認書一份)



# DATA SHEET

## Jan, 2009 Rev.3

R&D	Print date 09/02/02							
	5320 Ceramic Chip Antenna for WLAN & Bluetooth Application				CAN4311153002xx1K			July,2006
								March, 2007
								Jan, 2009
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spec.doc	Yageo Taiwan							

## 5320 Ceramic Chip Antenna for IEEE802.11 b/g & Bluetooth Application

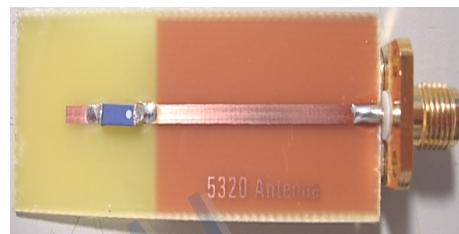
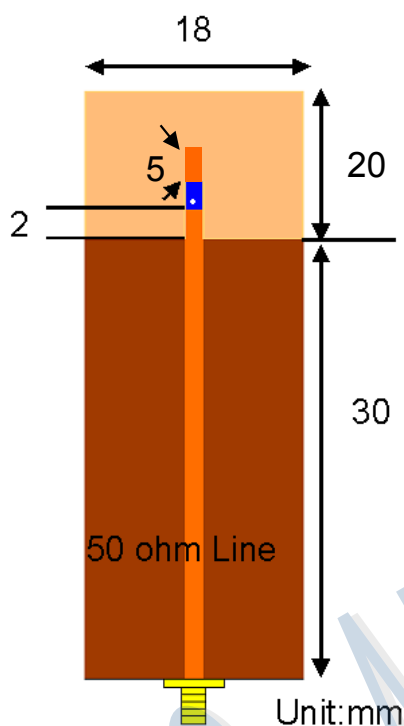
## Quick Reference Data

<sup>2</sup> Testing under evaluation board of page2

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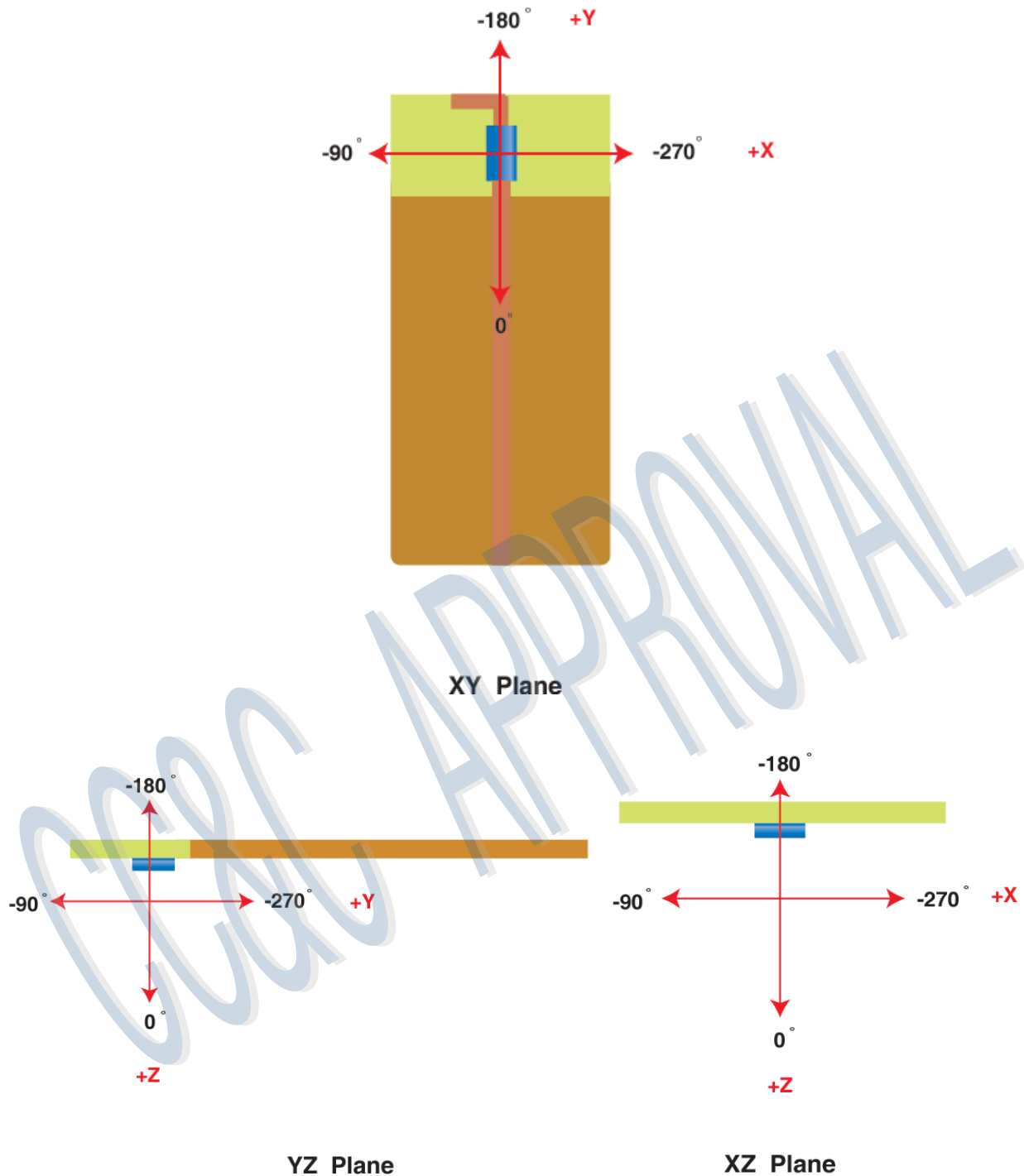
### 3. Evaluation Board Dimension and Outlook



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spec.doc	Yageo Taiwan								

#### 4. Return Loss

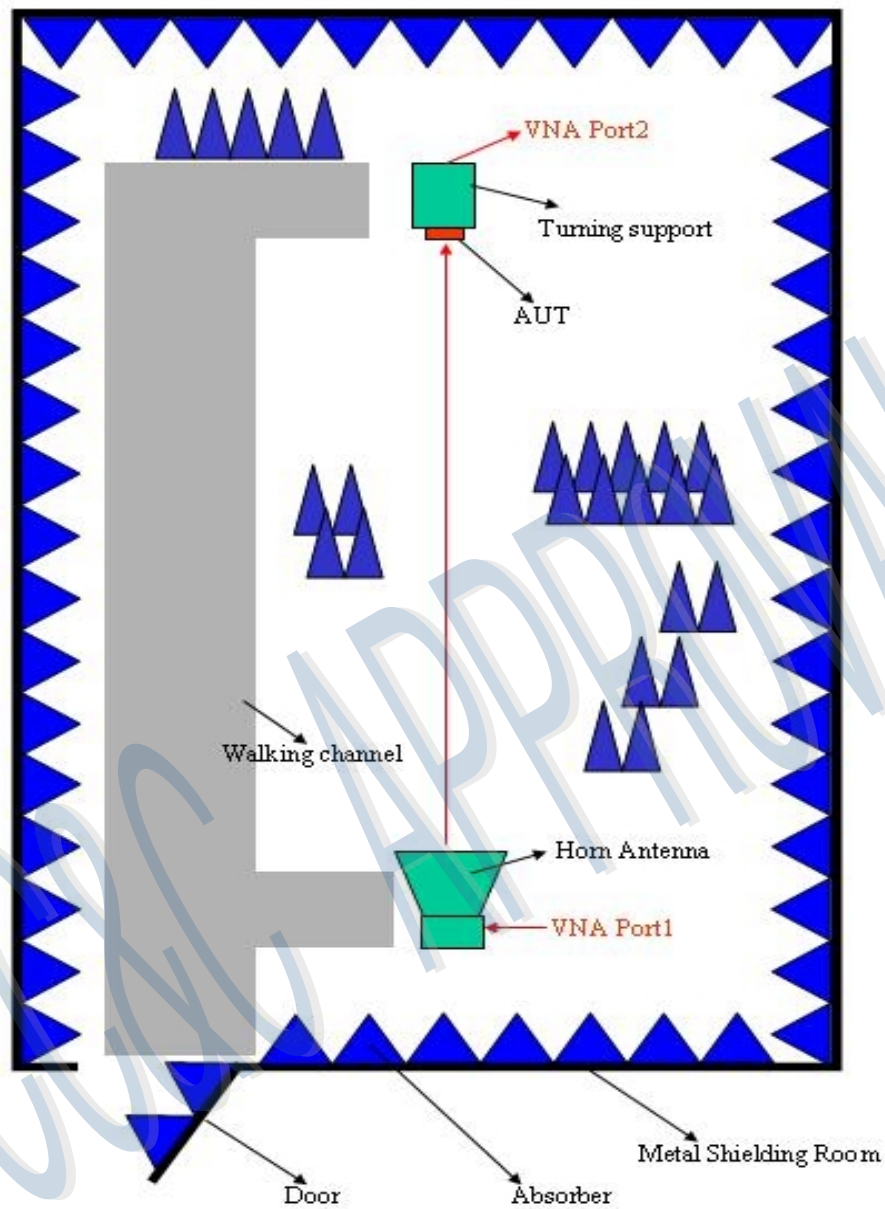
## 5. The Definition of X-Y-Z Plane and Angle



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## 6. The Environment of Antenna Radiation Pattern

Anechoic Chamber Dimension=10(m) × 6(m) × 6(m)



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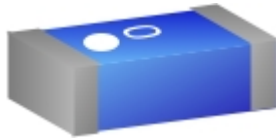
IEC 384-10/ CECC 32 100 CLAUSE	IEC 60068-2 TEST METHOD	TEST	PROCEDURE	REQUIREMENTS
4.4		Mounting	The antenna can be mounted on printed-circuit boards or ceramic substrates by applying wave soldering, reflow soldering (including vapour phase soldering) or conductive adhesive	No visible damage
4.5		Visual inspection and dimension check	Any applicable method using $\times 10$ magnification	In accordance with specification (chip off 4mm)
4.6.1		Antenna	Central Frequency at 20 °C	Standard test board in page 4
4.8		Adhesion	A force of 3 N applied for 10 s to the line joining the terminations and in a plane parallel to the substrate	No visible damage
4.9		Bond strength of plating on end face	Mounted in accordance with CECC 32 100, paragraph 4.4	No visible damage
			Conditions: bending 0.5 mm at a rate of 1mm/s, radius jig. 340 mm, 2mm warp on FR4 board of 90 mm length	No visible damage
4.10	20(Tb)	Resistance to soldering heat	260 $\pm$ 5 °C for 10 $\pm$ 0.5 s in a static solder bath	The terminations shall be well tinned after recovery and Central Freq. Change $\pm$ 6%
		Resistance to leaching	260 $\pm$ 5 °C for 30 $\pm$ 1 s in a static solder bath	Using visual enlargement of $\times 10$ , dissolution of the termination shall not exceed 10%

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IEC 384-10/ CECC 32 100 CLAUSE	IEC 60068-2 TEST METHOD	TEST	PROCEDURE	REQUIREMENTS
4.11	20(Ta)	Solderability	Zero hour test, and test after storage (20 to 24 months) in original atmosphere; un-mounted chips completely immersed for $2 \pm 0.5$ s in $235 \pm 5^{\circ}\text{C}$ .	The termination must be well tinned, at least 75% is well tinned at termination
4.12	4(Na)	Rapid change of temperature	$-25^{\circ}\text{C}$ (30 minutes) to $+85^{\circ}\text{C}$ (30 minutes); 100 cycles	No visible damage Central Freq. Change $\pm 6\%$
4.14	3(Ca)	Damp heat	$500 \pm 12$ hours at $60^{\circ}\text{C}$ ; 90 to 95 % RH	No visible damage 2 hours recovery Central Freq. Change $\pm 6\%$
4.15		Endurance	$500 \pm 12$ hours at $85^{\circ}\text{C}$ ;	No visible damage 2 hours recovery Central Freq. Change $\pm 6\%$

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spec.doc	Yageo Taiwan							



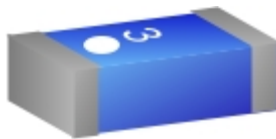
5320 Chip Antenna Type 0  
CAN4311153002001K  
(Bluetooth & Wifi)



5320 Chip Antenna Type 1  
CAN4311153002101K  
(Bluetooth & Wifi)



5320 Chip Antenna Type 2  
CAN4311153002201K  
(Bluetooth & Wifi)



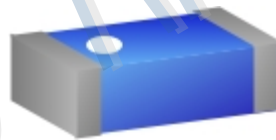
5320 Chip Antenna Type 3  
CAN4311153002301K  
(Bluetooth & Wifi)



5320 Chip Antenna Type 4  
CAN4311153002401K  
(Bluetooth & Wifi)



5320 Chip Antenna Type 5  
CAN4311153002501K  
(Bluetooth & Wifi)



5320 Chip Antenna Normal Type  
CAN4311153002451K  
(Bluetooth & Wifi)

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**DIMENSION:**

Serial no	Checking note	Index	Spec(mm)
1	Sprocket hole	Do	1.50±0.10
2	Pocket hole	D1	1.0±0.05
3	Distance sprocket hole/sprocket hole	Po	4.0±0.10
4	Distance pocket/pocket	P1	4.0±0.10
5	Distance sprocket hole/pocket	P2	2.0±0.05
6	Tape width	W	12.0±0.30
7	Distance sprocket hole/outside	E	1.75±0.10
8	Distance sprocket hole/pocket	F	5.50±0.05
9	Pocket length	Ao	1.47±0.10
10	Pocket length	Bo	5.57±0.10
11	Pocket depth	Ko	2.34±0.10
12	Thickness of tape	T	0.279±0.02
13	10x sprocket hole pitch	10Po	40.0±0.20

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### Revision Control:

Revision	Date	Content	Remark
1	2006, July	Modify the description for part nr.	
2	2007, March	Modify the part nr.	
3	2009, Jan	Add description for each type	

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YAGEO CORPORATION NANTZE BRANCH.

16, WEST 3RD STREET N. E. P. Z. KAOHSIUNG, TAIWAN, R. O. C.



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

Sample Description : LTCC RF COMPONENT(BALUN/FILTER/ANTENNA)  
Style/Item No. : BLUE SERIES  
Sample Receiving Date : 2009/03/13  
Testing Period : 2009/03/13 TO 2009/3/18

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

Ray Chang / Asst. Manager

Signed for and on behalf of  
SGS Taiwan Limited

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## Test Result(s)

PART NAME NO.1 : MIX ALL PARTS:BLUE LTCC RF

Test Item (s):	Unit	Method	MDL	Result No.1
Cadmium (Cd)	mg/kg	With reference to IEC 62321:2008. Determination of Cadmium by ICP-AES.	2	n.d.
Mercury (Hg)	mg/kg	With reference to IEC 62321:2008. Determination of Mercury by ICP-AES.	2	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321:2008. Determination of Lead by ICP-AES.	2	17.0
Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	With reference to IEC 62321:2008. Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry.	2	n.d.
<b>Sum of PBBs</b>	mg/kg	With reference to IEC 62321:2008. Determination of PBB and PBDE by GC/MS.	-	n.d.
Monobromobiphenyl			5	n.d.
Dibromobiphenyl			5	n.d.
Tribromobiphenyl			5	n.d.
Tetrabromobiphenyl			5	n.d.
Pentabromobiphenyl			5	n.d.
Hexabromobiphenyl			5	n.d.
Heptabromobiphenyl			5	n.d.
Octabromobiphenyl			5	n.d.
Nonabromobiphenyl			5	n.d.
Decabromobiphenyl			5	n.d.
<b>Sum of PBDEs</b>	mg/kg	With reference to IEC 62321:2008. Determination of PBB and PBDE by GC/MS.	-	n.d.
Monobromodiphenyl ether			5	n.d.
Dibromodiphenyl ether			5	n.d.
Tribromodiphenyl ether			5	n.d.
Tetrabromodiphenyl ether			5	n.d.
Pentabromodiphenyl ether			5	n.d.
Hexabromodiphenyl ether			5	n.d.
Heptabromodiphenyl ether			5	n.d.
Octabromodiphenyl ether			5	n.d.
Nonabromodiphenyl ether			5	n.d.
Decabromodiphenyl ether			5	n.d.

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Test Item (s):	Unit	Method	MDL	Result
				No.1
Halogen		With reference to BS EN 14582:2007. Analysis was performed by IC method for F , Cl , Br, I content.		
Halogen-Chlorine (Cl) (CAS No.: 022537-15-1)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC method for Chlorine content.	50	n.d.
Halogen-Fluorine (F) (CAS No.: 014762-94-8)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC method for Fluorine content.	50	n.d.
Halogen-Bromine (Br) (CAS No.: 010097-32-2)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC method for Bromine content.	50	n.d.
Halogen-Iodine (I) (CAS No.: 014362-44-8)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC method for Iodine content.	50	n.d.

Note : 1. mg/kg = ppm ; 0.1wt% = 1000ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. " - " = Not Regulated

5. The exemption of DecaBDE in polymeric application according 2005/717/EC was overruled by the European Court of Justice by its decision of 01.04.2008. Subsequently DecaBDE will be included in the sum of PBDE after 01.07.2008

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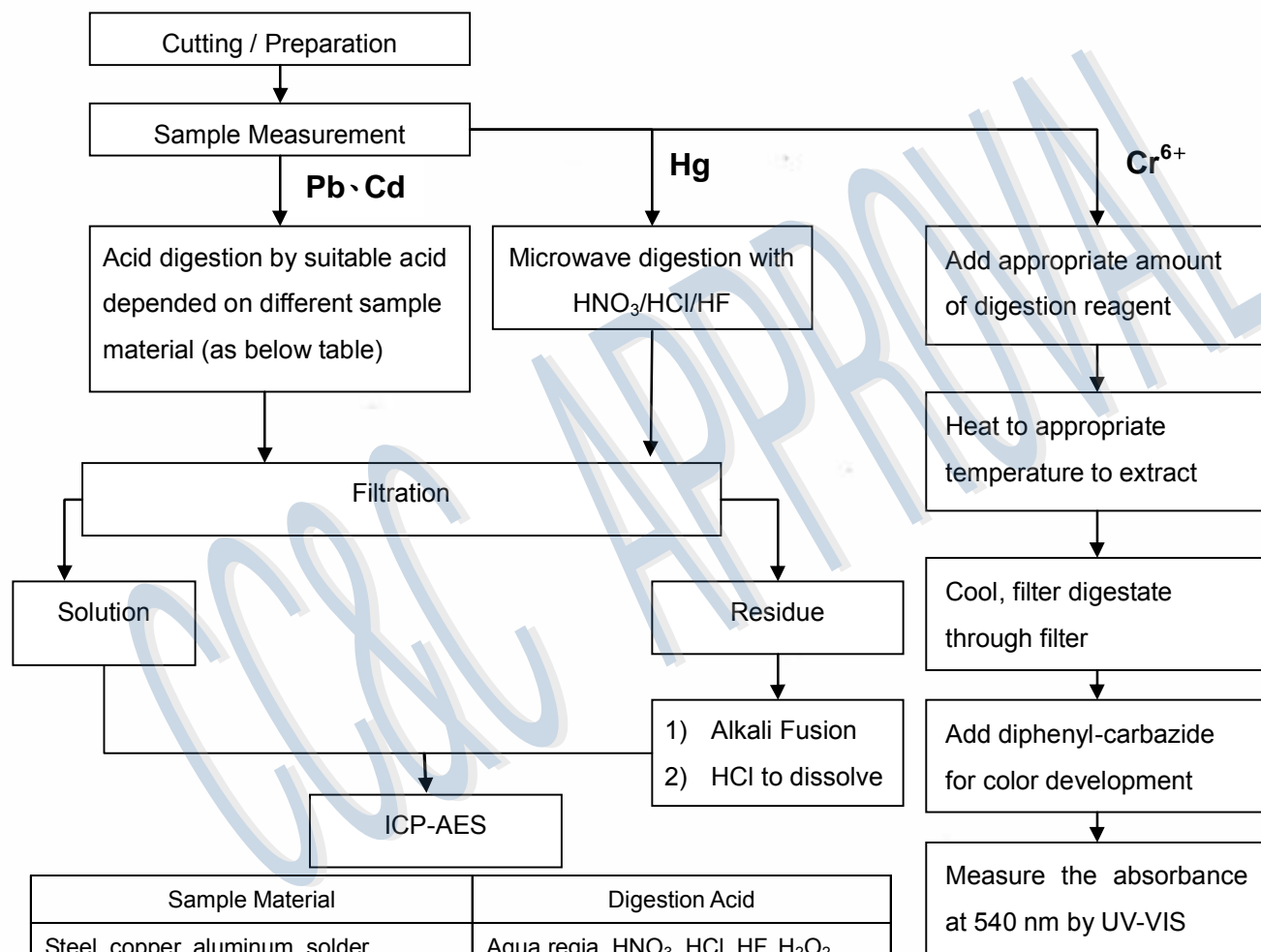
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16, WEST 3RD STREET N. E. P. Z. KAOHSIUNG, TAIWAN, R. O. C.



- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr<sup>6+</sup> test method excluded)
- 2) Name of the person who made measurement: Hungming Li
- 3) Name of the person in charge of measurement: Ray Chang



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

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### PBB/PBDE analytical FLOW CHART

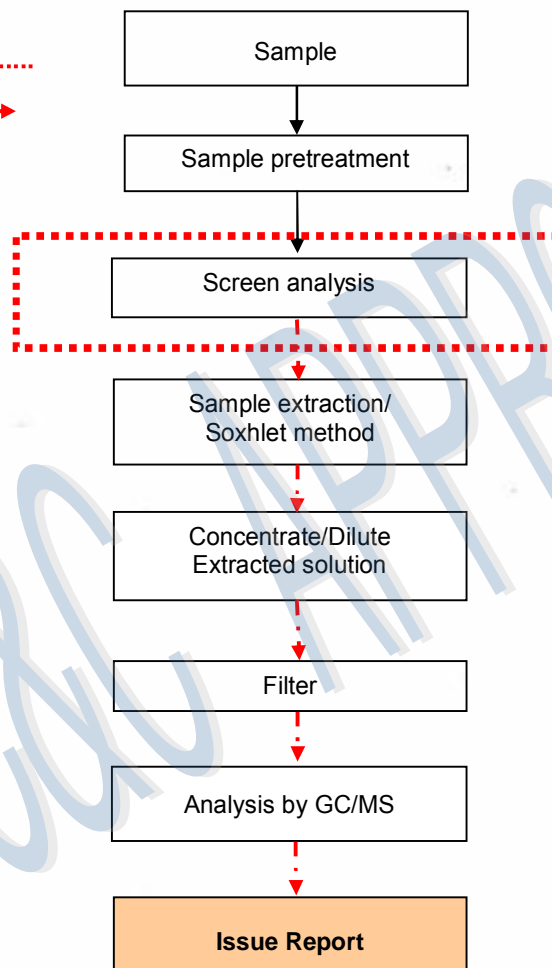
1) Name of the person who made measurement: Anson Tsao

2) Name of the person in charge of measurement: Ray Chang

First testing process →

Optional screen process ..... →

Confirmation process - - - - - →



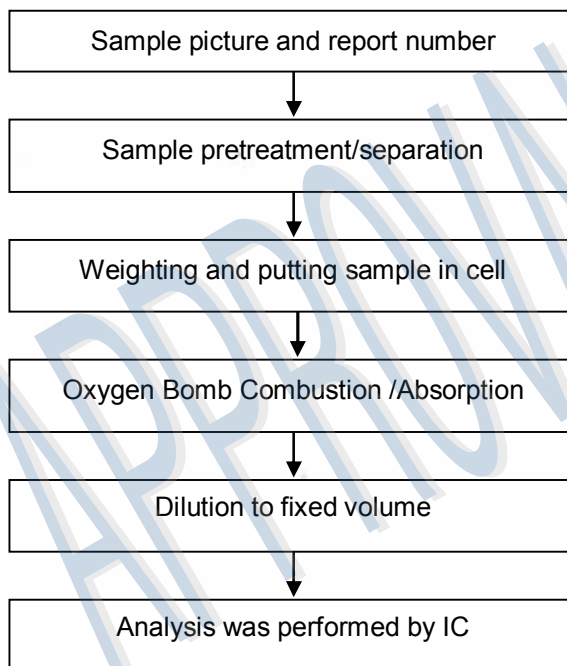
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### Analytical flow chart of halogen content

- 1) Name of the person who made measurement: Hungming Li
- 2) Name of the person in charge of measurement: Ray Chang



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\*\* End of Report \*\*

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## 不使用證明書（零部件量產用）

列印日期：

公司名稱：興邦國際股份有限公司

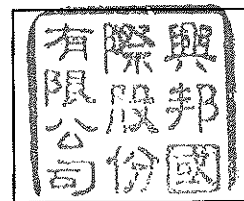
部門簽名：業務部

交易單位代碼：30600000-00

負責人姓名：蔡淑貞

e-mail: cream@hsinbung.com.tw

印



- 茲證明向貴公司交貨的零部件、輔助材料及裝置部件的使用材料、包裝材料以及生產工程中的添加劑等，沒有晶訊科技公司規定的禁止使用物質（Level 1）；如本公司所生產之產品中，含有晶訊科技股份有限公司規定禁用之物質，本公司將負產品回收及賠償之責任。。
- 交貨的零部件、輔助材料及裝置部件，請參看附件。

填寫內容：產品名稱、生產工廠、（交貨或變更）開始（交貨日、Serial No. or Lot. No.）

產品名稱:Bluetooth Antenna

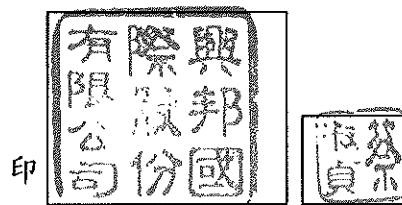
生產工廠:台灣高雄廠

本文件保存期限：三年

不使用證明書（零部件批准部品）

列印日期：

- 公司名稱：興邦國際股份有限公司
- 部門簽名：業務部
- 交易單位代碼：306000000-00
- 負責人姓名：蔡淑貞
- e-mail：cream@hsinbung.com.tw



茲證明關於向貴公司交貨的零部件、輔助材料及裝置部件的使用材料、包裝材料以及生產工程中的添加劑等，沒有晶訊科技股份有限公司規定的管理標準之禁用物質（Level 1）；如本公司所生產之產品中，含有晶訊科技股份有限公司規定禁用之物質，本公司將負產品回收及賠償之責任。

另外，關於零部件、輔助材料及裝置部件的使用材料、包裝材料以及生產工程中的添加劑等的構成成分報告如下。

(1) 零部件、輔助材料/裝置部件

零部件、輔助材料名稱：Bluetooth Antenna

零部件編號：30G000000-00

SB（規格書、圖紙）No.：\_\_\_\_\_

生產工廠：台灣高雄廠

〈使用材料〉

● 部位：

原物料廠商名稱（ YAGEO ） 材料名稱/Tape 名稱（ Ceramic ）

● 部位：

原物料廠商名稱（ ） 材料名稱/Tape 名稱（ ）

〈使用添加劑〉

● 部位：

原物料廠商名稱（ ） 材料名稱/Tape 名稱（ ）

● 部位：

原物料廠商名稱（ ） 材料名稱/Tape 名稱（ ）

(2) 可以測定物質的 ICP 資料，請參見附件。

(3) 不能測定物質的成分表及 MSDS，請參見附件。

- 填寫不下時請另外用紙填寫。

備考：

2009 年 10 月 22 日

本文件保存期限：三年