

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 準
K-Tie 100%	W.H.	Alex 100%	Amy	✓

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)



興邦國際股份有限公司

Hsin Bung International Co., Ltd TEL:+886.2.2914.3801 FAX:+886.2.2918.6664

台北縣新店市寶橋路235巷16弄3號2樓

ANTENNA PRODUCTS

DATA SHEET

5320 Ceramic Chip Antenna for IEEE 802.11 b/g & Bluetooth Application

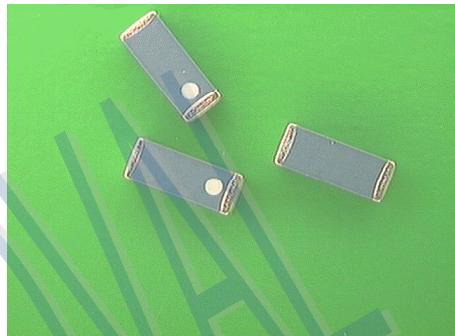
Jan, 2009 Rev.3

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

Quick Reference Data

Central Frequency	2.45GHz*1
Bandwidth	at least 200 MHz*2
VSWR	2.0 (Max.)*2
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	5.5 dBi*2
Impedance	50Ω
Operating Temperature	-25~85 °C
Termination	Ni / Sn (Environmentally-Friendly Leadless)
Resistance to soldering heats	260°C , 10sec.
Maximum Power	1W

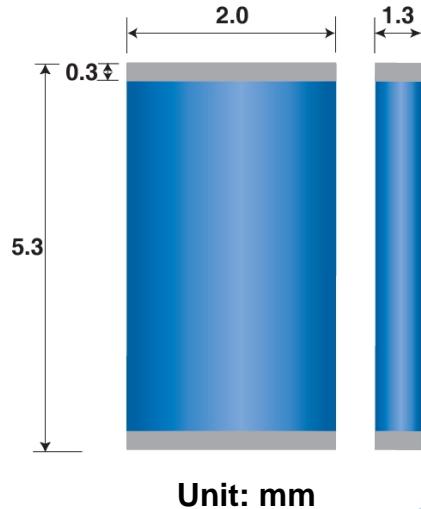


¹ All the technical data and information contained herein are subject to change without prior notice

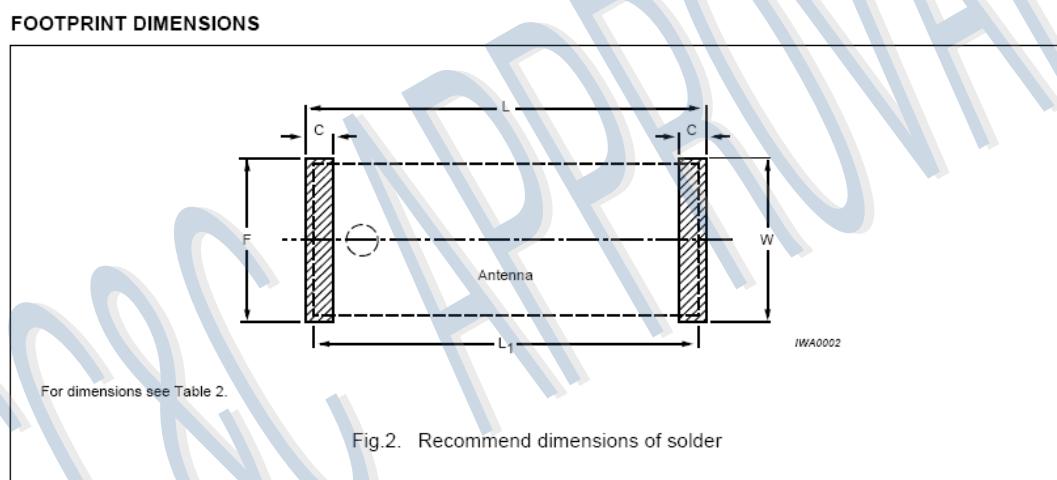
² Testing under evaluation board of page2

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1. Mechanical Data (5.3 x 2.0x 1.3mm³)



2. Dimension of Footprint



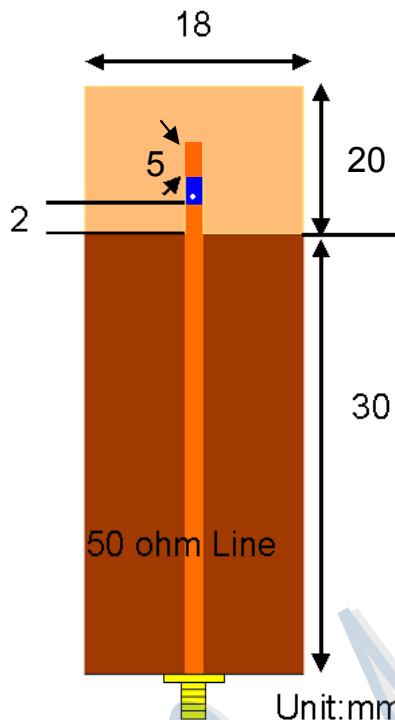
Physical dimensions

Table 2 The dimensions of antenna appearance

SYMBOL	DETAILS	DIMENSIONS (mm)
L	-	5.5 ±0.2
W	-	2.2 ±0.2
F	feed pad	2.2 ±0.2
C	-	0.5 ±0.25
L1	-	5.3 ±0.5

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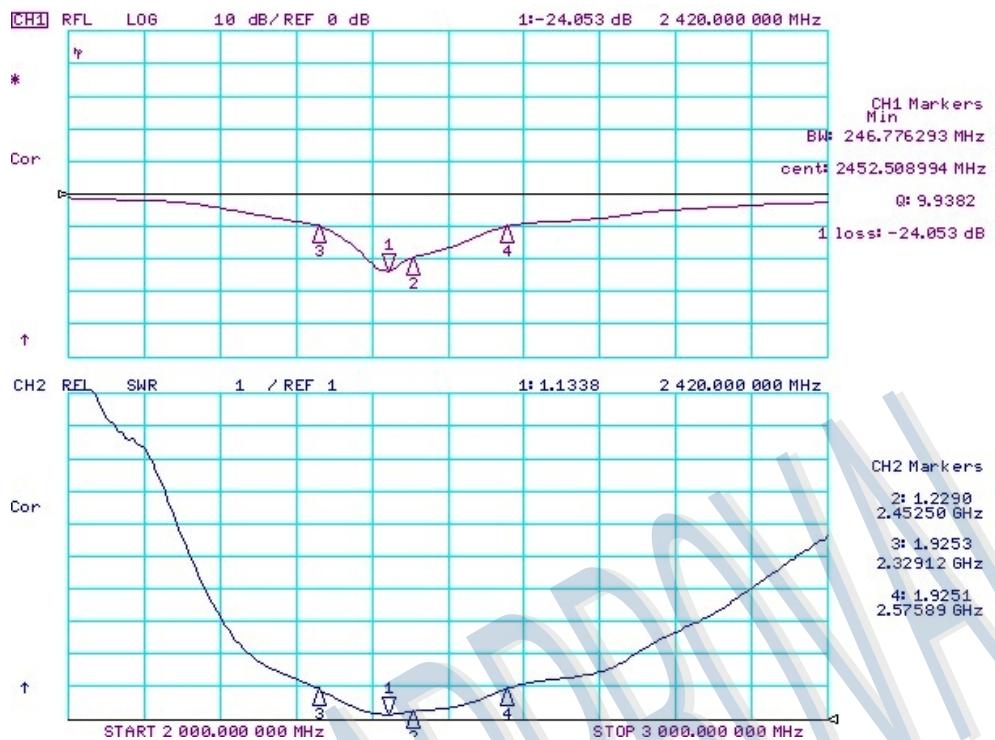
3. Evaluation Board Dimension and Outlook



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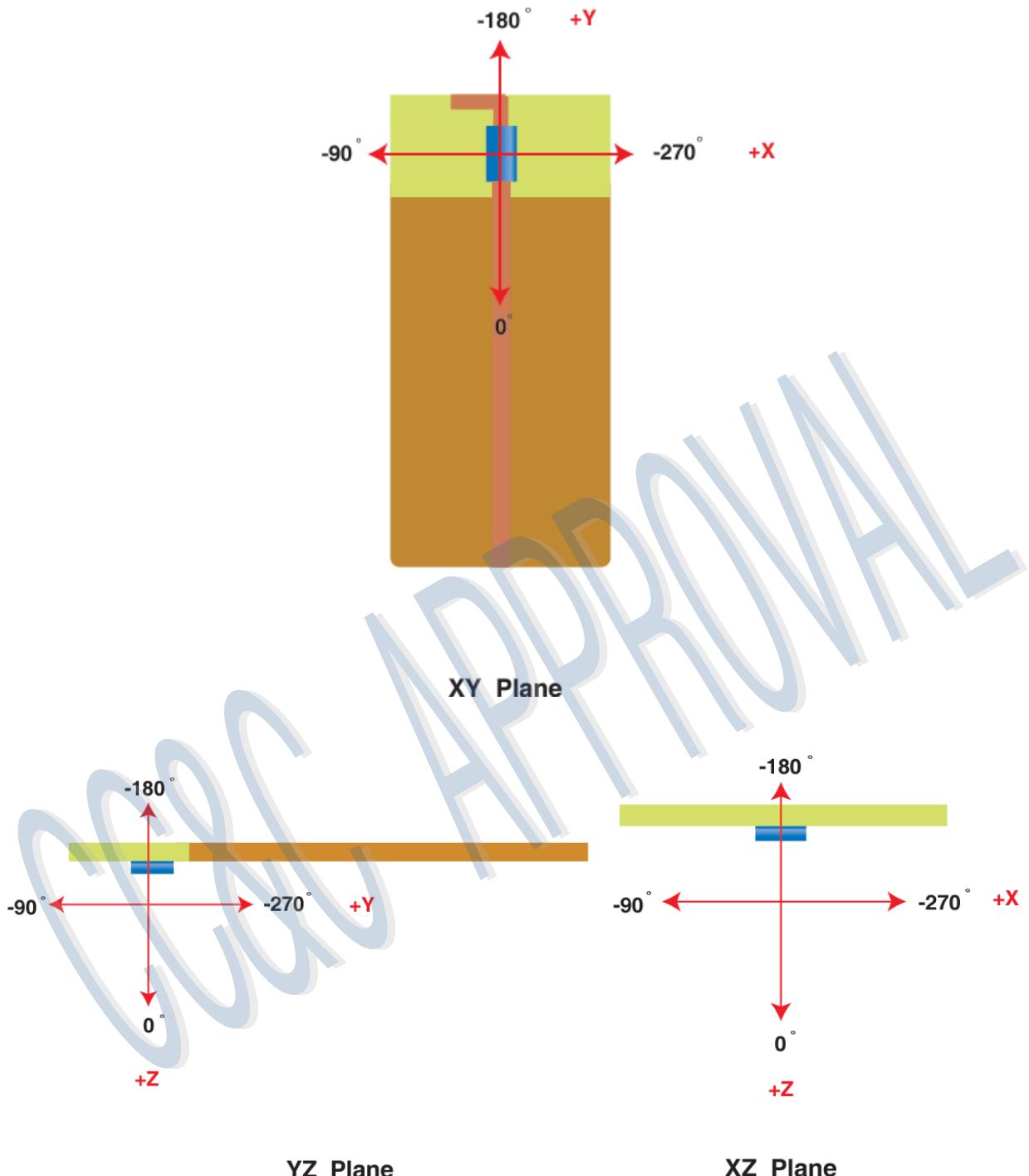
4. Return Loss



CCCA APPROVAL

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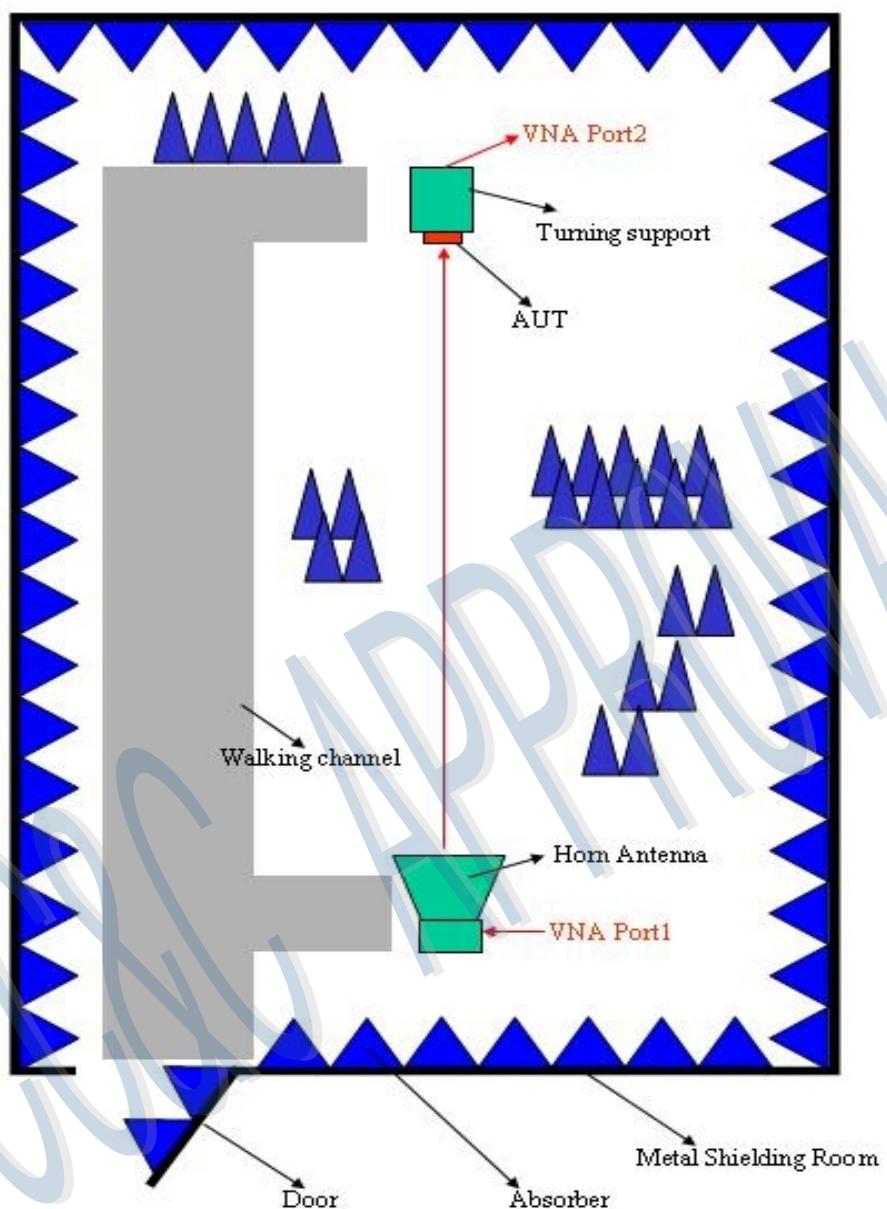
5. The Definition of X-Y-Z Plane and Angle



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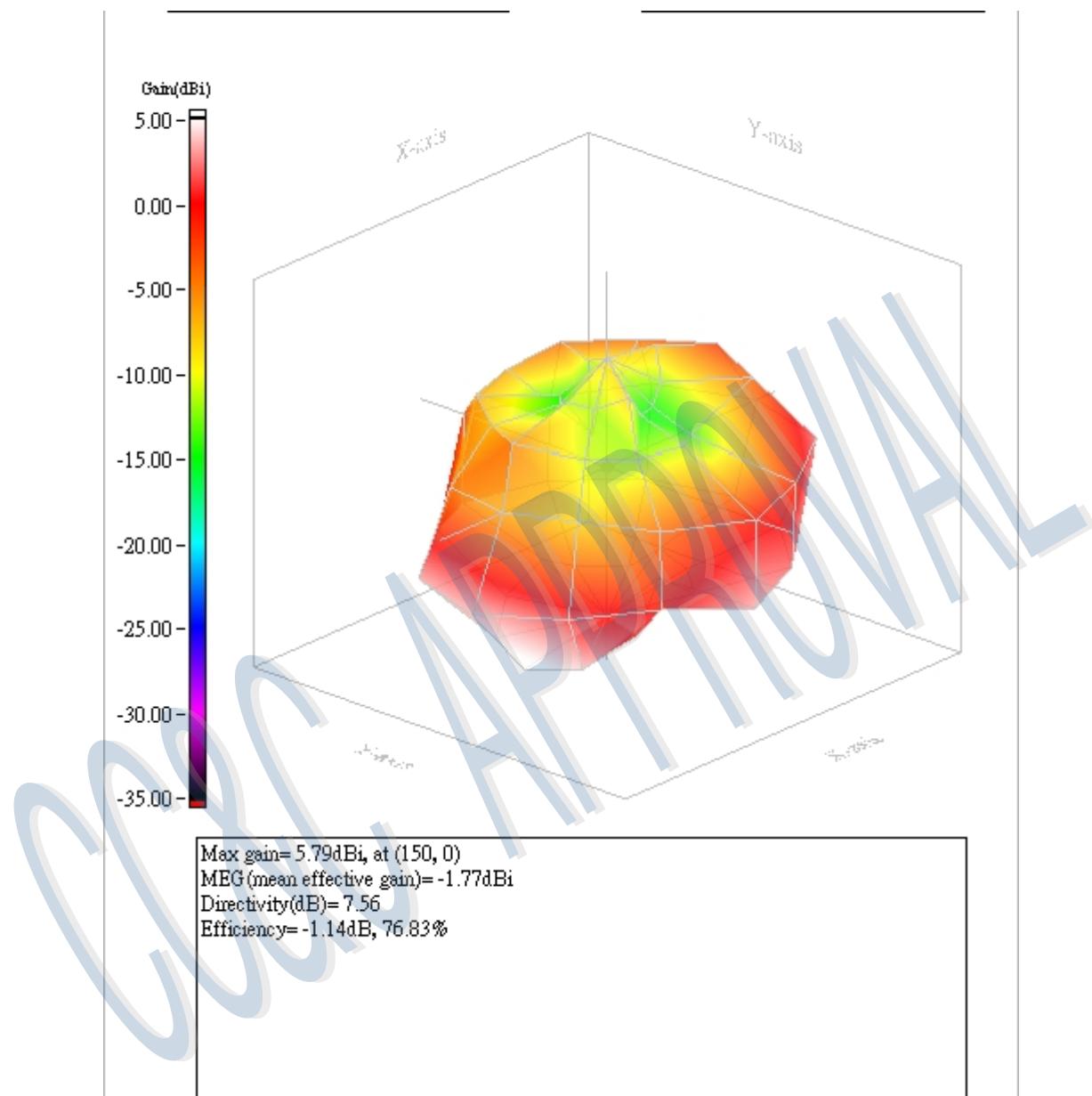
6. The Environment of Antenna Radiation Pattern

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



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7. 3D Radiation Pattern



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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	$260 \pm 5^{\circ}\text{C}$ for 10 ± 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	$260 \pm 5^{\circ}\text{C}$ for 30 ± 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 ± 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°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 ± 12 hours at 60°C ; 90 to 95 % RH	No visible damage 2 hours recovery Central Freq. Change $\pm 6\%$
4.15		Endurance	500 ± 12 hours at 85°C ;	No visible damage 2 hours recovery Central Freq. Change $\pm 6\%$

CC&C APPROVED

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Ordering Information

The antennas may be ordered by using the Yageo ordering code. These code numbers can be determined by the following rules:

CAN 43 11 1 53 00 2xx 1K

A P M S B T Q

A. Family Code

CAN 43 = Yageo Part No. for Antenna

P. Packing Type Code

11 = 180 mm/ 7" reel, blister taping

M. Materials Code

1 = High Frequency Material

S. Size Code

53 = 5.3 * 2.0 * 1.3mm

B. Application

00 = Bluetooth Application

T. Type

200 = type 0

210 = type 1

220 = type 2

230 = type 3

240 = type 4

245 = normal type

250 = type 5

Q. Packing amount

1K = 1000 pcs for taping per reel

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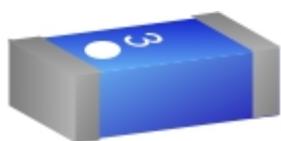
5320 Chip Antenna Type 0
CAN4311153002001K
(Bluetooth & Wifi)



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)



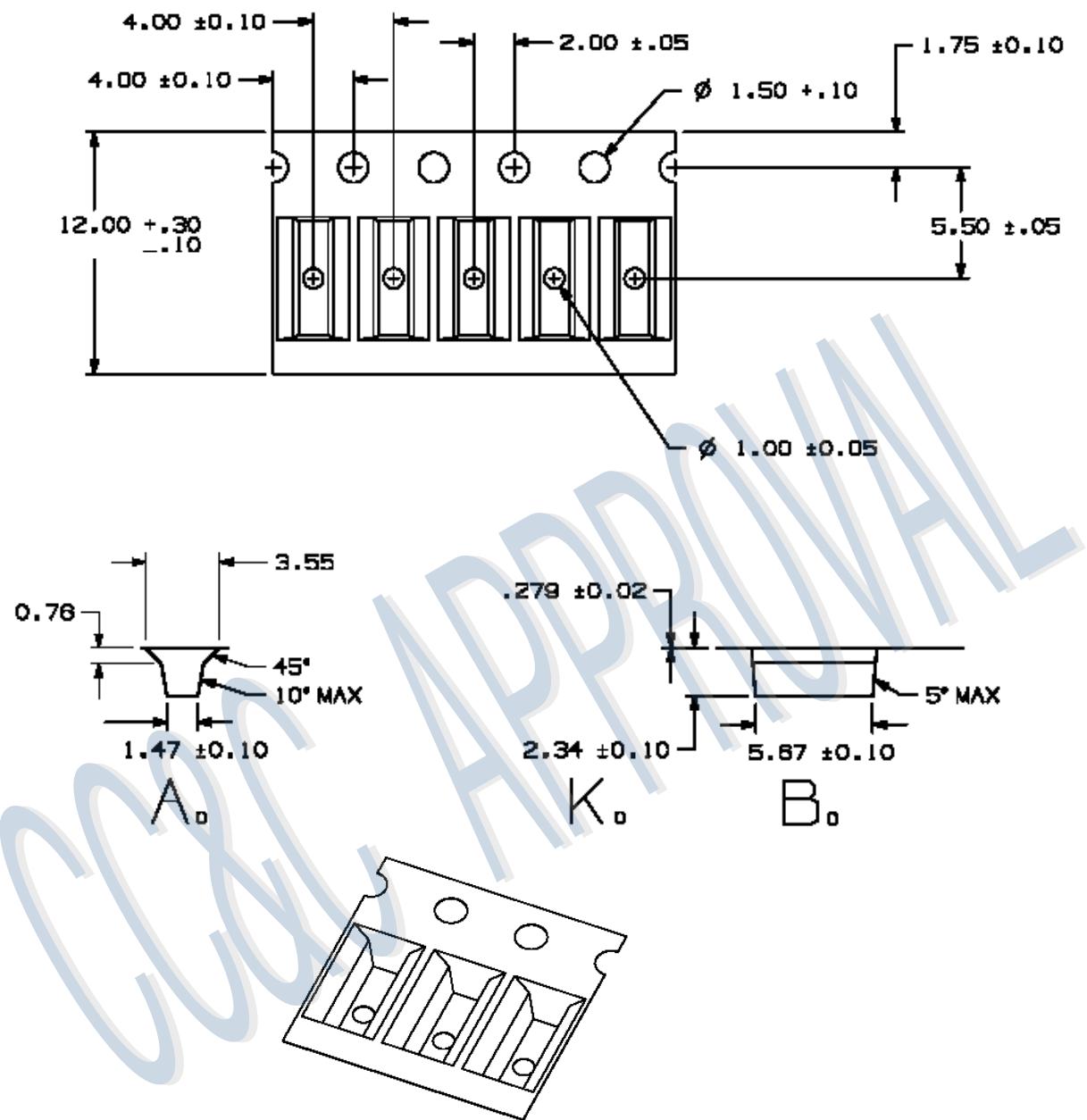
5320 Chip Antenna Type 5
CAN4311153002501K
(Bluetooth & Wifi)



5320 Chip Antenna Normal Type
CAN4311153002451K
(Bluetooth & Wifi)

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Taping Blister Tape



THE DIMENSIONS SHOWN ON THIS PROPOSED DRAWING ARE FOR ILLUSTRATIVE PURPOSE.
DIMENSIONS FROM ACTUAL CARRIER MAY VARY SLIGHTLY.

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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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7"(180mm) Reel Specifications

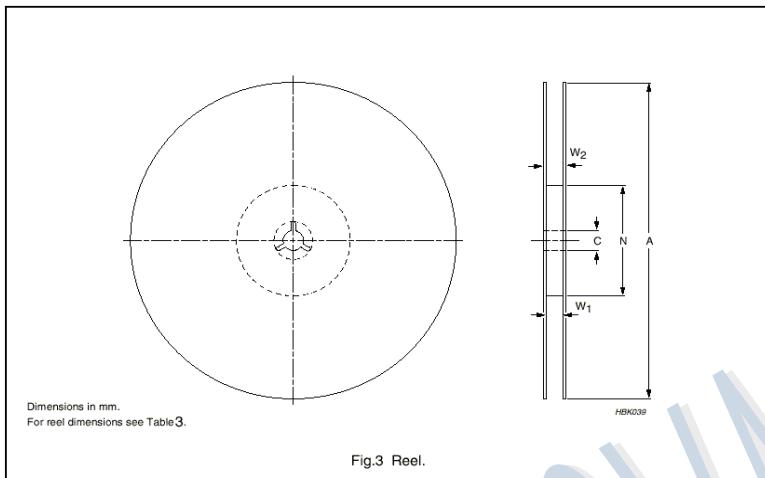


Fig.3 Reel.

TAPE WEITH (mm)	A (mm)	N (mm)	C (mm)	W ₁ (mm)	W ₂ MAX. (mm)
12	180	60±1	13 ^{+0.50} / _{-0.20}	12.4 ^{+2.0} / _{-0.0}	18.4

CCU ART

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	

CCRC APPROVAL

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



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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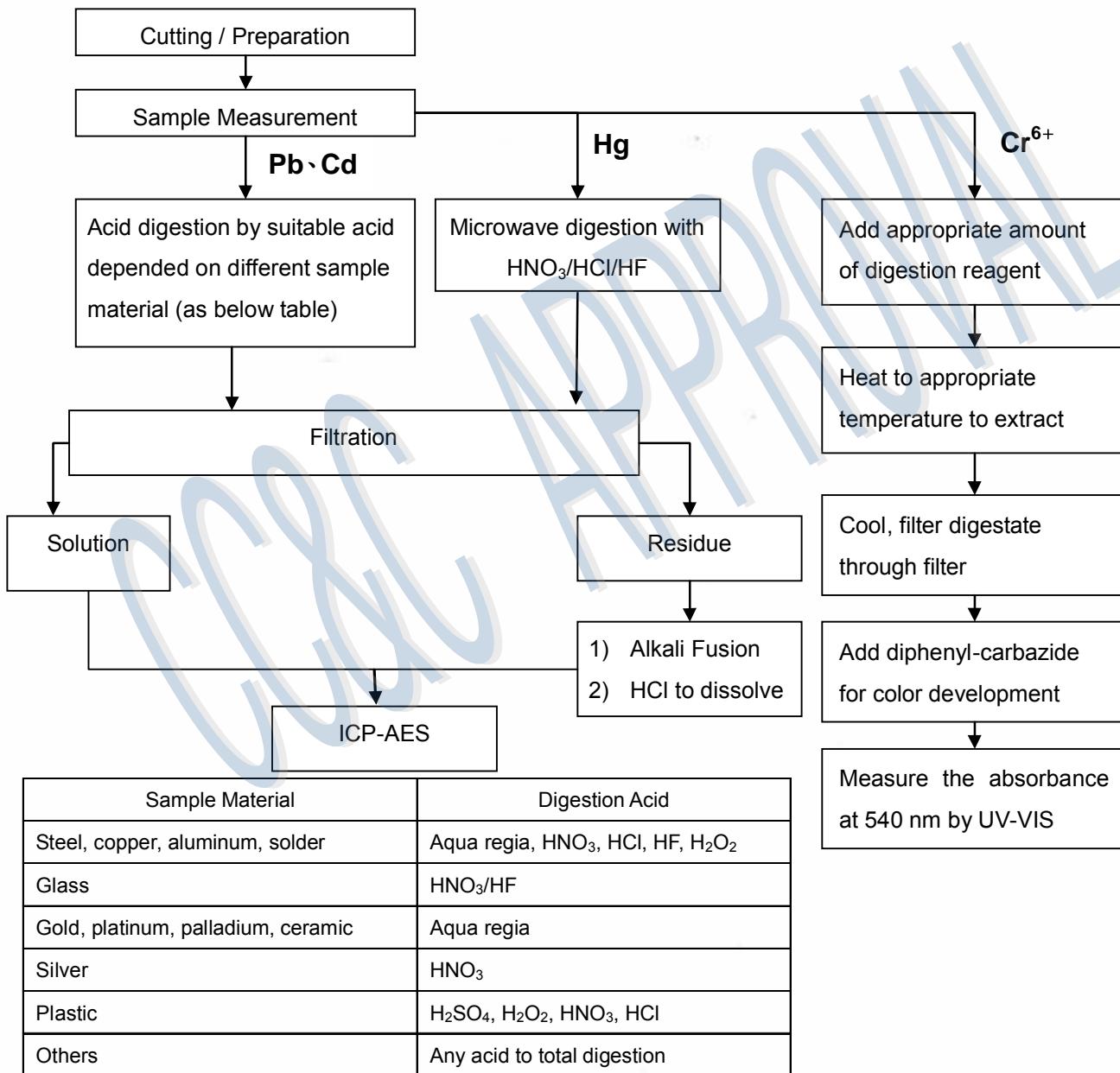
Test Report

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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. (Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Hungming Li
- 3) Name of the person in charge of measurement: Ray Chang



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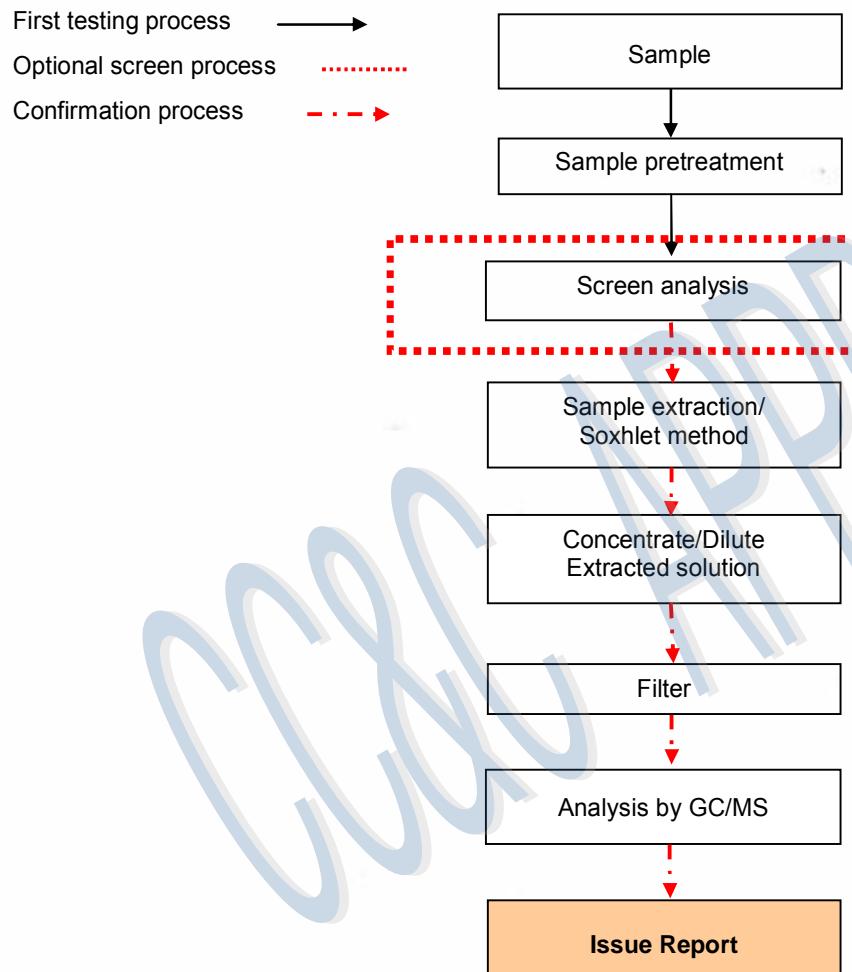
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PBB/PBDE analytical FLOW CHART

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



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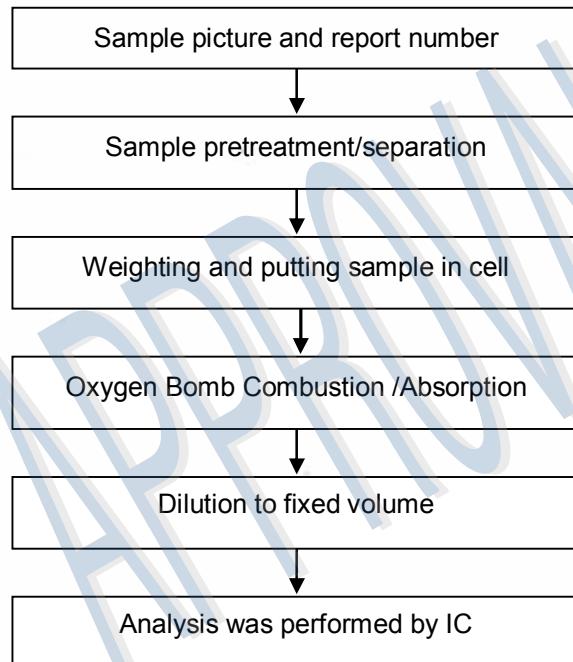
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Analytical flow chart of halogen content

- 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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YAGEO CORPORATION NANTZE BRANCH.
16, WEST 3RD STREET N. E. P. Z. KAOHSIUNG, TAIWAN, R. O. C.



** End of Report **

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不使用證明書（零部件量產用）

列印日期：

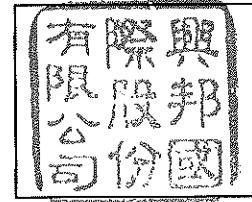
公司名稱：興邦國際股份有限公司

部門簽名：業務部

交易單位代碼：30600000-0

負責人姓名：蔡淑貞

e-mail : cream@hsinbung.com.tw



印

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2. 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

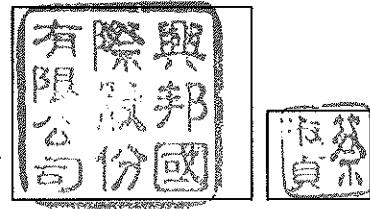
CC&C APPROVAL

本文件保存期限：三年

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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： 3061000066
- 負責人姓名： 蔡淑貞
- e-mail：cream@hsinbung.com.tw



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(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：