



APPROVAL SHEET

Qi Hardware Inc

Item : AT26 Crystal

Spec. no : AT2607-032768-12-20-QA

Freq : 32.768 KHz

Customer Approved	Checked By	Issued By
		

友桂電子股份有限公司

YOKETAN CORPORATION

E-mail: yoketec@ms14.hinet.net [http:// www.yoketant.com.tw](http://www.yoketant.com.tw)

Taichung Factory : 28-2 , NAN 2ND Rd , T.E.P.Z , Taichung , Taiwan (42760)

Tel: 886-4-25333353 Fax: 886-4-25338675

Taipei Office : 9F-3 , No.107 , Sec. 1,Zhongshan Rd., Xinzhuang City , Taipei , Taiwan (24250)

Tel: 886-2-85227548 Fax: 886-2-85227546

China Factory : Block C-3F, Da Zhou Ind. Estate , North Zhan Gang Rd, Zhaoqing City, Guangdong Province , P.R.C. (526020)

Tel: 86-758-6152666 Fax: 86-758-6152699

Shenzhen Office : Unit 1018, 10/F., Hua Tong Building , Sungang Rd , Luohu District , Shenzhen City , P.R.C. (518008)

Tel: 86-755-25936978 Fax: 86-755-25569970

Wuxi Office : Block C-3F, Da Zhou Ind. Estate, North Zhan Gang Rd, Zhaoqing City, Guangdong Province, P.R.C. (214101)

Tel: 86-510-88708842 Fax: 86-510-88211895



RoHS Compliant



[illegible]

SPECIFICATION OF CRYSTAL UNITS

YOKETAN CORP.

Customer QI

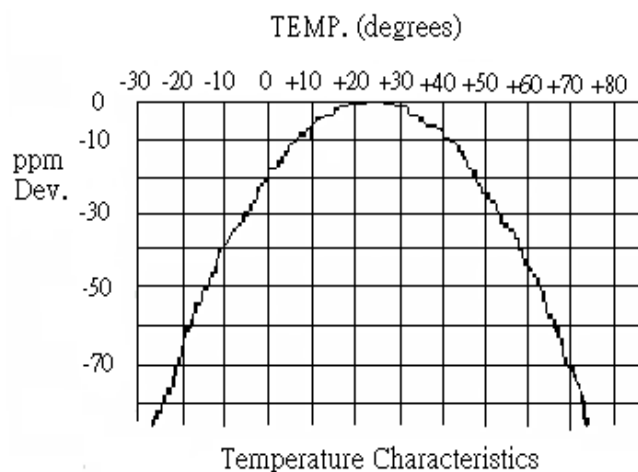
SPEC NO : AT2607-032768-12-20-QA

DATE : 4-Sep-09

(Lead Free Parts)

SPECIFICATION OF CRYSTAL UNITS

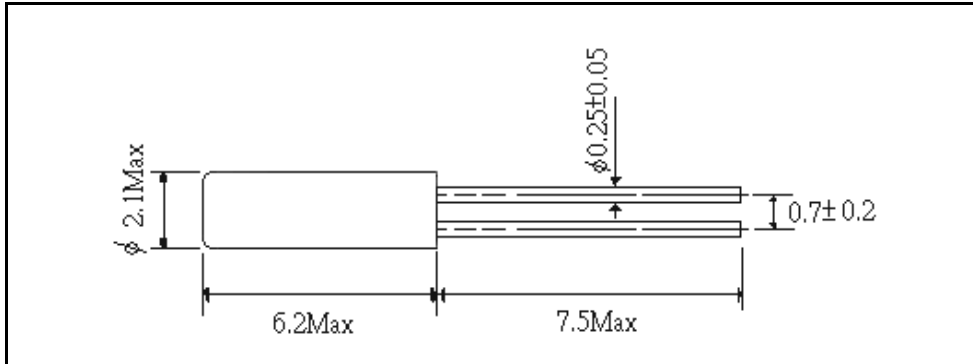
- | | |
|--------------------------------|---|
| 1 Nominal frequency | 32.768 KHz |
| 2 Frequency tolerance | $\pm 20\text{ppm}$ at 25 ± 2 degrees |
| 3 Temperature characteristics | |
| -Turnover temperature | 25 ± 5 |
| -Parabolic curvature constant | $-0.034 \pm 0.006 \text{ ppm/}^{\circ}\text{C}^2$ |
| 4 Operating temperature | -30 to 80 degrees |
| 5 Equiverent series resistance | 50k ohms Max. |
| 6 Load capacitance | 12.5pF |
| 7 Shunt capacitance | 2.0pF Max. |
| 8 Drive level | 1.0uW Max. |
| 9 Insulation resistance | 500M ohms/100 $\pm 15\text{VDC}$ |
| 10 Aging | $\pm 5\text{ppm/Year}$ |
| 11 Frequency VS Temperature | |



SPECIFICATION OF CRYSTAL UNITS

YOKETAN CORP.

12 Dimension (unit : mm)



Note:

1. Heating up the package must be less than 150 degrees/5sec.
2. The crystal characteristics may be affected and destroyed at worst by bending the crystal.
3. The crystal characteristics may be affected and destroyed at worst by additional production process as ultrasonic welding or molding encapsulation. Please be sure to check if this process affects any damage to crystal products prior to use.

SPECIFICATION OF CRYSTAL UNITS

YOKETAN CORP.

Reliability Test (applicable to 49(50) type .U type and Tuning Fork X'tal)

Test Items	Test Condition	Specification	
		Dip	SMD
1. Gross Leak Test	FC-40 125 /30sec	No continuous bubble	
2. Fine Leak Test	Bombing of He 4kg/cm ² for 2 hours	Less than 5*10 ⁻⁸ atm.c.c./sec, Helium	
3. Drop Test	a. ~19.999MHz(Fund.) 100 cm height b. 20~29.999MHz(Fund.) 50 cm height c. 30~ MHz(Fund.) 20 cm height on hard wooden surface / 3 times (thickness more than 30 mm)	F ± 10PPM , C.I within spec.	F ±10PPM , C.I within spec.
4. Vibration Test	Freq. range: 10~55Hz Peak to peak amplitude:1.5mm 3 direction(X,Y,Z) , each 60min.	F ± 10PPM , C.I within spec.	F ±10PPM , C.I within spec.
5. Resistance to Soldering Test	a. IR Reflow furnace with the condition 2 times. Peak temp.260±3 , 10±1 sec.	NA	F ±10PPM , C.I within spec. For SMD type only.
	b. Dip terminals in a 245±5 solder station(pool) Dipping depth 0.5mm(Min) Dipping time 5±0.5 sec.	At least 90% by 30X magnification of each dipped area shall be covered by fresh solder. For DIP type only.	NA
6. Bending Test	Bending cycle : 1 cycle 0° - > 45° -> 0° -> 45° -> 0°	F ±5PPM , C.I within spec. For DIP type only.	NA
7. Shearing Test	Weight : 5N, Test duration : 10±1 sec	NA	F ±10PPM , C.I within spec. For SMD type only.
8. Low Temp. Exposure Test	-40±3 , 240±12 hrs	F ± 10PPM , C.I within spec.	F ±10PPM , C.I within spec.
9. Aging Test	85±3 , 240±12hrs	F ± 10PPM , C.I within spec.	F ±10PPM , C.I within spec.
10. High Temp. & Humidity Test	+85 ±5 & 85%±5% R.H. , 240±12 hrs	F ± 10PPM , C.I within spec.	F ±10PPM , C.I within spec.
11. Temperature Cycling Test	-25±3 /15±3min ~ +85±3 /15±3min 15cycles	F ± 10PPM , C.I within spec.	F ±10PPM , C.I within spec.

測試報告

Test Report

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友桂電子股份有限公司

YOKETAN CORPORATION

台中縣潭子鄉台中加工出口區南二路28號之2

28-2, NAN 2ND ROAD, T. E. P. Z, TAICHUNG, TAIWAN



以下測試樣品係由客戶送樣，且由客戶聲稱並經客戶確認如下 (The following samples was/were submitted and identified by/on behalf of the client as):

樣品名稱(Sample Description) : CYLINDER CRYSTAL UNITS
樣品型號(Style/Item No.) : ATXX SERIES / XMR200 SERIES
收件日期(Sample Receiving Date) : 2008/11/04
測試期間(Testing Period) : 2008/11/04 TO 2008/11/11

測試結果(Test Results) : 請見下一頁 (Please refer to next pages).

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

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測試報告 Test Report

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測試結果(Test Results)

測試部位(PART NAME) NO.1 : 整體混測 (共5款) (MIXED ALL PARTS (FIVE KINDS))

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321/2nd CDV (111/95/CDV) 方法, 用感應耦合電漿原子發射光譜儀 (ICP-AES) 檢測鎘含量. / With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Cadmium by ICP-AES.	2	n.d.
鉛 / Lead (Pb)	mg/kg	參考IEC 62321/2nd CDV (111/95/CDV) 方法, 用感應耦合電漿原子發射光譜儀 (ICP-AES) 檢測鉛含量. / With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Lead by ICP-AES.	2	n.d.
汞 / Mercury (Hg)	mg/kg	參考IEC 62321/2nd CDV (111/95/CDV) 方法, 用感應耦合電漿原子發射光譜儀 (ICP-AES) 檢測汞含量. / With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Mercury by ICP-AES.	2	n.d.
六價鉻 / Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	針對非金屬材質之樣品, 參考IEC 62321/2nd CDV (111/95/CDV) 方法檢測, 用UV-VIS檢測六價鉻含量. / 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.

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台中縣潭子鄉台中加工出口區南二路28號之2

28-2, NAN 2ND ROAD, T. E. P. Z, TAICHUNG, TAIWAN



測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result) NO.1
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS) PFOS - Acid PFOS - Metal Salt PFOS - Amide	mg/kg	參考US EPA 3540C: 1996方法, 以液相 層析質譜儀檢測全氟辛烷磺酸含量。/ With reference to US EPA 3540C: 1996 method for PFOS Content. Analysis was performed by LC/MS.	10	n.d.
多溴聯苯總和 / Sum of PBBs	mg/kg	參考IEC 62321/2nd CDV (111/95/CDV) 方法, 以氣相層析儀/質譜儀檢測多溴 聯苯和多溴聯苯醚含量。/ With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of PBB and PBDE by GC/MS.	-	n.d.
一溴聯苯 / Monobromobiphenyl			5	n.d.
二溴聯苯 / Dibromobiphenyl			5	n.d.
三溴聯苯 / Tribromobiphenyl			5	n.d.
四溴聯苯 / Tetrabromobiphenyl			5	n.d.
五溴聯苯 / Pentabromobiphenyl			5	n.d.
六溴聯苯 / Hexabromobiphenyl			5	n.d.
七溴聯苯 / Heptabromobiphenyl			5	n.d.
八溴聯苯 / Octabromobiphenyl			5	n.d.
九溴聯苯 / Nonabromobiphenyl			5	n.d.
十溴聯苯 / Decabromobiphenyl			5	n.d.
多溴聯苯醚總和 / Sum of PBDEs			-	n.d.
一溴聯苯醚 / Monobromodiphenyl ether			5	n.d.
二溴聯苯醚 / Dibromodiphenyl ether			5	n.d.
三溴聯苯醚 / Tribromodiphenyl ether			5	n.d.
四溴聯苯醚 / Tetrabromodiphenyl ether			5	n.d.
五溴聯苯醚 / Pentabromodiphenyl ether			5	n.d.
六溴聯苯醚 / Hexabromodiphenyl ether			5	n.d.
七溴聯苯醚 / Heptabromodiphenyl ether			5	n.d.
八溴聯苯醚 / Octabromodiphenyl ether			5	n.d.
九溴聯苯醚 / Nonabromodiphenyl ether			5	n.d.
十溴聯苯醚 / Decabromodiphenyl ether			5	n.d.

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測試報告 Test Report

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YOKETAN CORPORATION

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28-2, NAN 2ND ROAD, T. E. P. Z, TAICHUNG, TAIWAN



備註(Note) :

1. mg/kg = ppm
2. n.d. = Not Detected (未檢出)
3. MDL = Method Detection Limit (方法偵測極限值)
4. "-" = Not Regulated (無規格值)
5. 樣品的測試是基於申請人要求混合測試，報告中的混合測試結果不代表其中個別單一材質的含量。
(The samples was/were analyzed on behalf of the applicant as mixing sample in one testing.
The above results was/were only given as the informality value.)

PFOS參考資訊(Reference Information) : 指令 2006/122/EC (Directive 2006/122/EC)

- (1) 該物質不可置於市場上或使用於特殊物質或配置成分重量濃度等於或大於0.005%。
(May not be placed on the market or used as a substance or constituent of preparations in a concentration equal to or higher than 0.005 % by mass.)
- (2) 該物質不可置於市場上的半成品或商品或其物件；假若零件上明顯地具有PFOS並參照結構上及微細構造上計算PFOS重量濃度等於或大於0.1%，而紡織品或其他覆蓋物質，如果PFOS在覆蓋物質中含量等於或大於 $\mu\text{g}/\text{m}^2$ 。
(May not be placed on the market in semi-finished products or articles, or parts thereof, if the concentration of PFOS is equal to or higher than 0.1 % by mass calculated with reference to the mass of structurally or microstructurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is equal to or higher than $\mu\text{g}/\text{m}^2$ of the coated material.)

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友桂電子股份有限公司

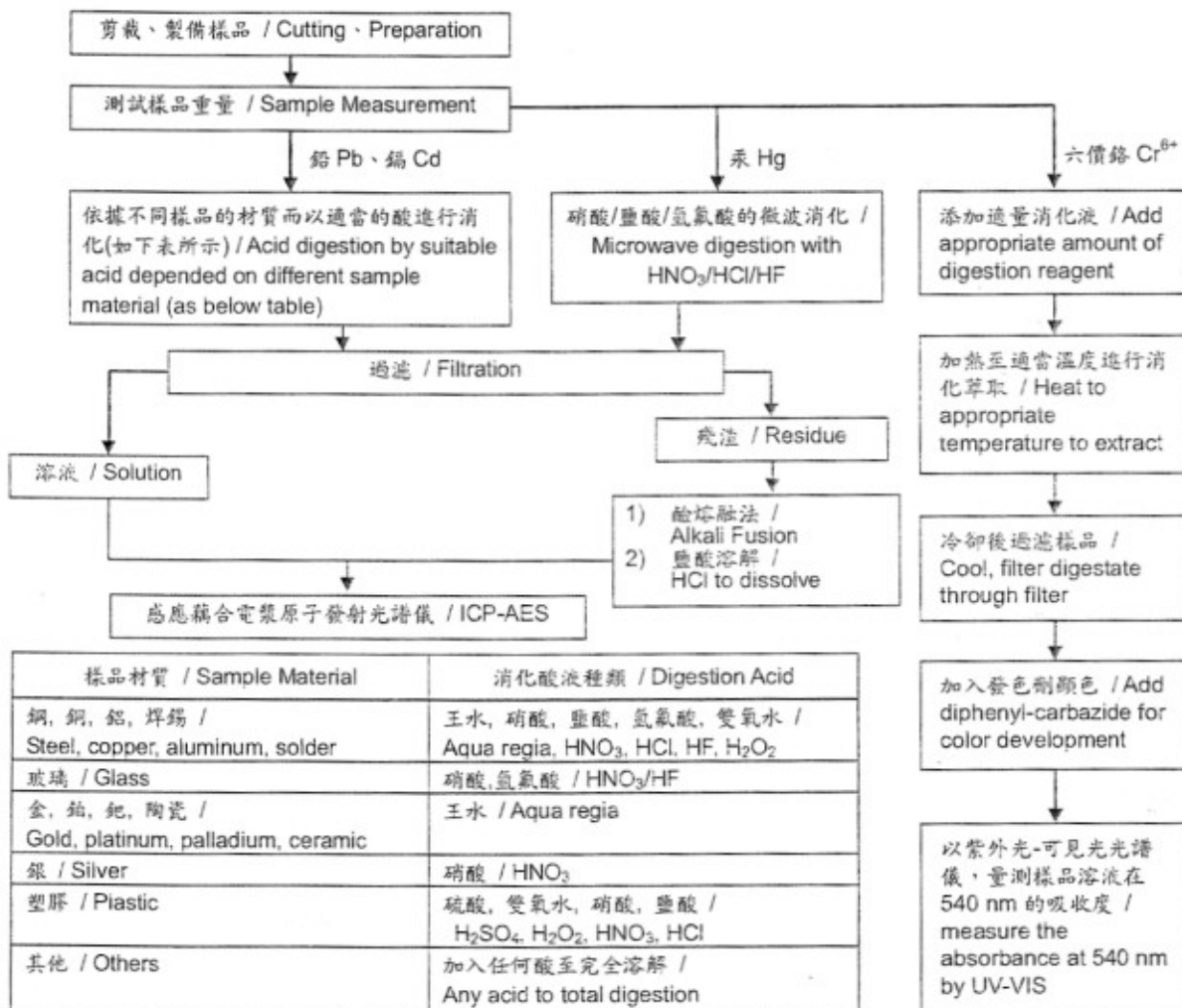
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- 1) 根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) 測試人員：楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



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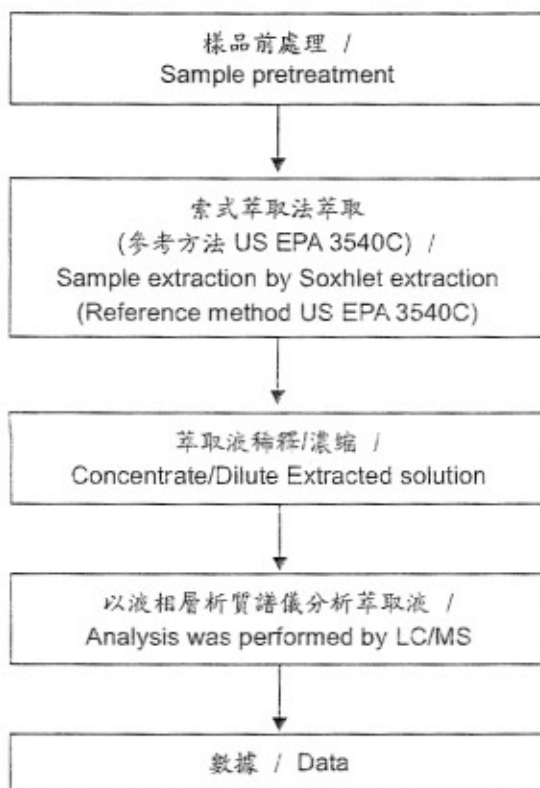
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全氟辛酸(銨)/全氟辛烷磺酸分析流程圖 / Analytical flow chart of PFOA/PFOS content

- 1) 測試人員: 劉家瑗 / Name of the person who made measurement: Carrie Liu
- 2) 測試負責人: 陳新智 / Name of the person in charge of measurement: Shinjyh Chen



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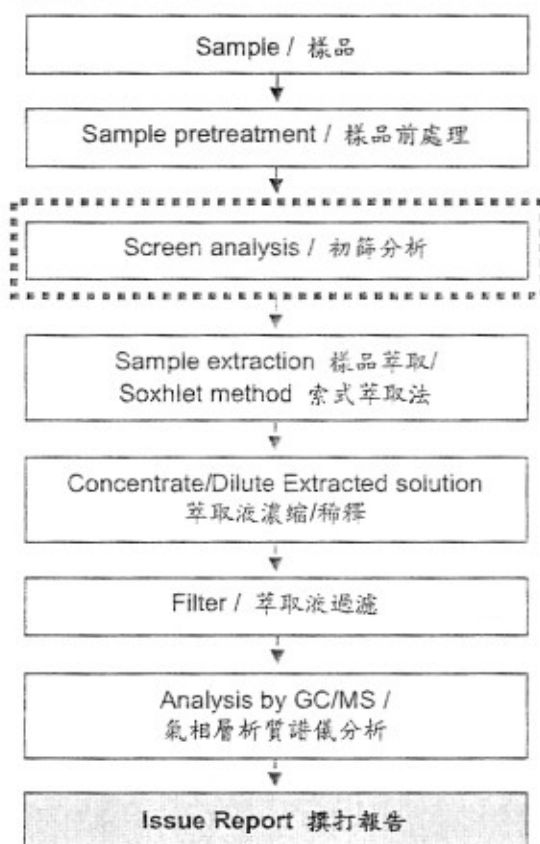
多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

- 1) 測試人員：翁賜彬 / Name of the person who made measurement: Roman Wong
- 2) 測試負責人：陳新智 / Name of the person in charge of measurement: Shinjyh Chen

初次測試程序 / First testing process →

選擇性篩檢程序 / Optional screen process

確認程序 / Confirmation process - - - →



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友桂電子股份有限公司

YOKETAN CORPORATION

台中縣潭子鄉台中加工出口區南二路28號之2

28-2, NAN 2ND ROAD, T. E. P. Z, TAICHUNG, TAIWAN



** 報告結尾 **

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SGS Taiwan Ltd.
台灣檢驗科技股份有限公司 Chemical-Taipei 33 WuChyuan Road, Wuku Industrial Zone, Taipei County, Taiwan / 台北縣五股工業區五權路33號 t + 886 (02)2299 3279 f + 886 (02)2299 3237 www.sgs.com

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