

寶 號
CUSTOMER

MARITEX

HF
ROHS
COMPLIANT

承 認 書

SPECIFICATION FOR APPROVAL

品名
PRODUCT NAME FBCA-A78-302540-L-T

客戶料號
CUSTOMER PART NO.

批號
SAMPLE
NO.

日期
DATE. 2013/8/5

Customer Approved Status 客戶承認範圍

FULLY APPROVED (全部承認)	PARTILLY APPROVED (部份承認)	REVISE APPROVED (修訂承認)
Drawn by	Checked by	Approved by
鍾佩宜	吳明珠	吳炳勳



KING CORE ELECTRONICS INC.


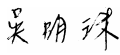
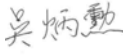
NO 269, Nanfong Rd., Pingjhen City, Taoyuan County Taiwan

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Website: [http:// www.kingcore.com. tw](http://www.kingcore.com.tw)

E-mail: [kc@mail.kingcore.com. tw](mailto:kc@mail.kingcore.com.tw)

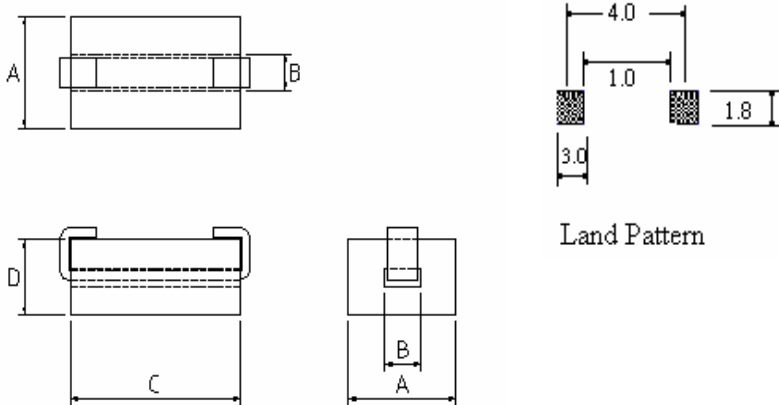
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製作 DRAWN BY: 	確認 CHECKED BY: 	承認 APPROVED BY: 

/修訂履歷 REVISION RESUME

日期 DATE	版次 VERSION	修訂目的 PURPOSE	修訂內容概述 REVISION DESCRIPTION	備註 REMARK
2013/8/5	A	首次送樣 INITIAL RELEASE		
製作 DRAWN BY: 鍾佩宜		確認 CHECKED BY: 吳明珠		承認 APPROVED BY: 吳炳勳

SPECIFICATION FOR APPROVAL

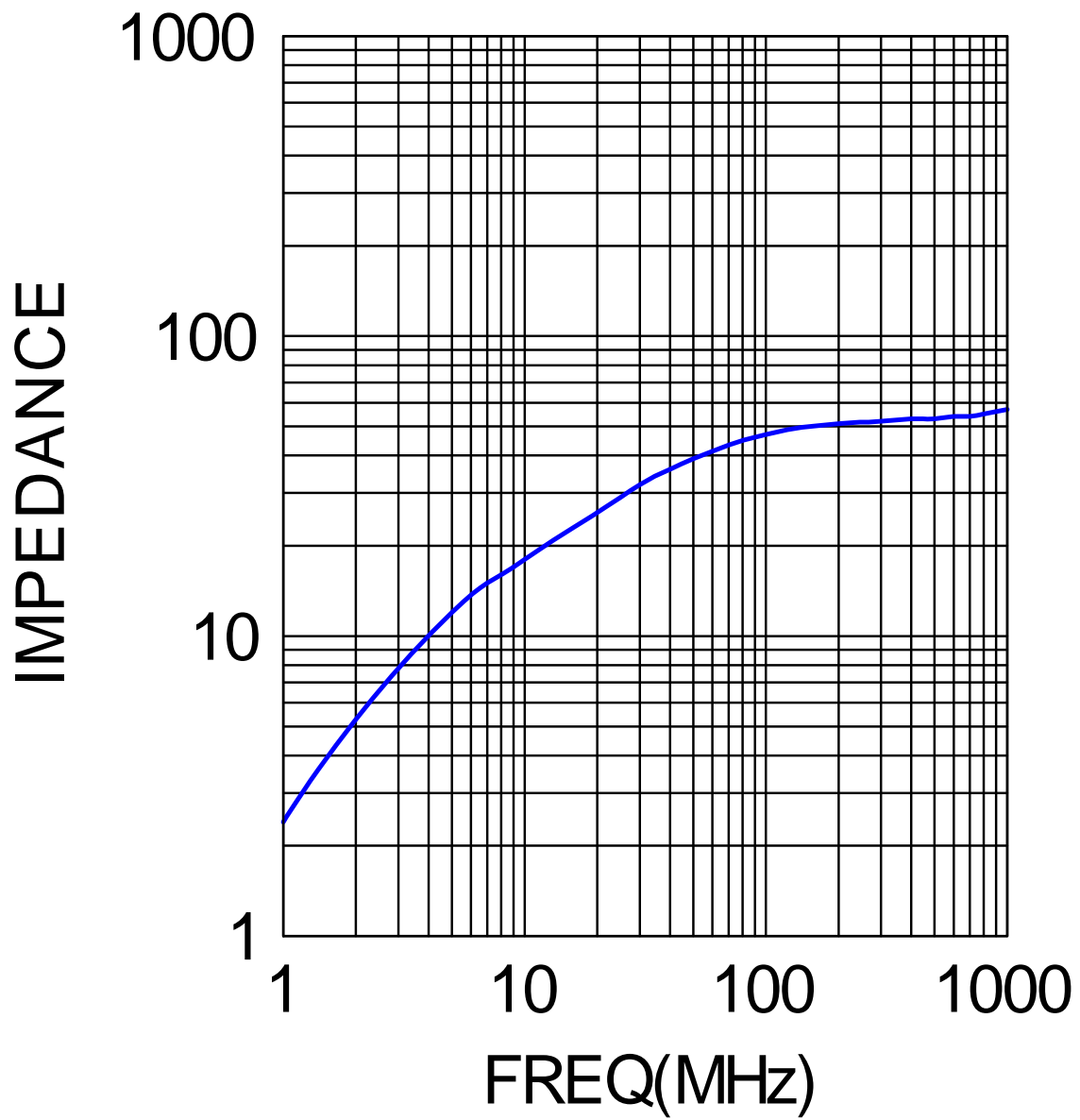
CUSTOMER:	MARITEX	CUST.P/N:
ORDERING CODE:	FBCA-A78-302540-L-T	K.C.P/N: PM3001AT
<p>(1) SHAPE :</p> 		A 3.0±0.2 mm
		B 1.45±0.10 mm
		C 4.00±0.25 mm
		D 2.55±0.15 mm
		E mm
		F mm
		G mm
<p>(2) ELECTRICAL REQUIREMENTS:</p> <p>$Z_1 = 17 \text{ min OHM AT } 25 \text{ MHz}$</p> <p>$Z_2 = 32 \text{ min OHM AT } 100 \text{ MHz}$</p> <p>IDC: $\Delta T_{40^\circ\text{C}} = 6\text{A(max)}$</p>		<p>(3) TEST CONDITIONS:</p> <p>1 IMPEDANCE ANALYZER: E4991A</p> <p>TEST FIXTURE: HP16092A</p> <p>2.WIRE: $\Phi 0.2 \text{ T.C.W} \times 1.27 \times 9\text{mm} \times 1/2\text{Ts}$</p>
<p>(4) PACKING</p> <p><input type="checkbox"/> IN BULK <input type="checkbox"/> VACUUM <input type="checkbox"/> INSERTION</p> <p>PCS/BAG* BAGS/INNER BOX BOXES/CARTON = PCS</p> <p>PCS/PLATE* PLATES/CARTON= PCS</p> <p>PCS/TRAY* TRAYS/CARTON= PCS</p> <p>500 PCS/REEL *4 REELS/INNER BOX* 10BOXES/CARTON=20000PC</p>		<p>(5) APPEARANCE</p> <p style="text-align: center;">Less Than 3 Chips Per 10mm²</p>
<p>(6)REMARK:</p>		Approved by 吴炳熙
		Checked by 吴明珠
		Drawn by 钟佩宜 2013/8/5
		DWG.NO. 20138012A

TEST DATA FOR PREPRODUCTION SAMPLES

CUSTOMER	MARITEX			CUST. P/N		
ORDERING CODE	FBCA-A78-302540-L-T			K.C. P/N	PM3001AT	
TEMP.	24 °C	RH	69 %	DWG.NO.	20138012A	
WIRE	0.2x1.27x9mm T.C.W	WINDING	1/2 Ts	Q'TY	5PCS	
Test Instruments						
Meas. Item.	Z (OHM)	Z (OHM)	A mm	C mm	D mm	
Specification	17 min	32 min	3.0±0.2	4.00±0.25	2.55±0.15	
Test Freq.	25 MHz	100 MHz				
sample#1	29	47	3.05	3.98	2.50	
sample#2	30	48	3.06	3.98	2.49	
sample#3	28	46	3.04	4.00	2.51	
sample#4	29	47	3.05	3.99	2.50	
sample#5	29	47	3.06	3.98	2.52	
sample#6						
sample#7						
sample#8						
sample#9						
sample#10						
\bar{X}	29.0	47.0	3.052	3.986	2.504	
R	2	2	0.02	0.02	0.03	
REMARK:				Approved by: 吳炳勳		
				Checked by: 吳明珠		
				Drawn by: 鍾佩宜		

KING CORE ELECTRONICS INC.

FBCA-A78-302540-L-T



測試報告

Test Report

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鈞寶電子工業股份有限公司

KING CORE ELECTRONICS INC.

桃園縣平鎮市平鎮工業區南豐路269號

NO. 269, NANFONG RD., PINGJHEN CITY, TAOYUAN COUNTY, 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) : WOUND CHIP BEAD
樣品型號(Style/Item No.) : FBCA TYPE
收件日期(Sample Receiving Date) : 2012/09/24
測試期間(Testing Period) : 2012/09/24 TO 2012/09/27

=====
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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測試結果(Test Results)

測試部位(PART NAME)No.1 : 整體混測 (MIXED ALL PARTS)

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
砷 / Arsenic (As)	mg/kg	參考US EPA 3052方法, 以感應耦合電漿原子發射光譜儀檢測. / With reference to US EPA Method 3052. Analysis was performed by ICP-AES.	2	n.d.
六溴環十二烷 / Hexabromocyclododecane (HBCDD) (CAS No.: 25637-99-4)	mg/kg	參考US EPA 3540C方法, 以氣相層析/質譜儀檢測. / With reference to US EPA 3540C method. Analysis was performed by GC/MS.	5	n.d.
鄰苯二甲酸甲苯基丁酯 / BBP (Benzyl butyl phthalate) (CAS No.: 85-68-7)	%	參考EN 14372, 以氣相層析/質譜儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	%	參考EN 14372, 以氣相層析/質譜儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	%	參考EN 14372, 以氣相層析/質譜儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.

備註(Note) :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n.d. = Not Detected (未檢出)
3. MDL = Method Detection Limit (方法偵測極限值)
4. 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.)

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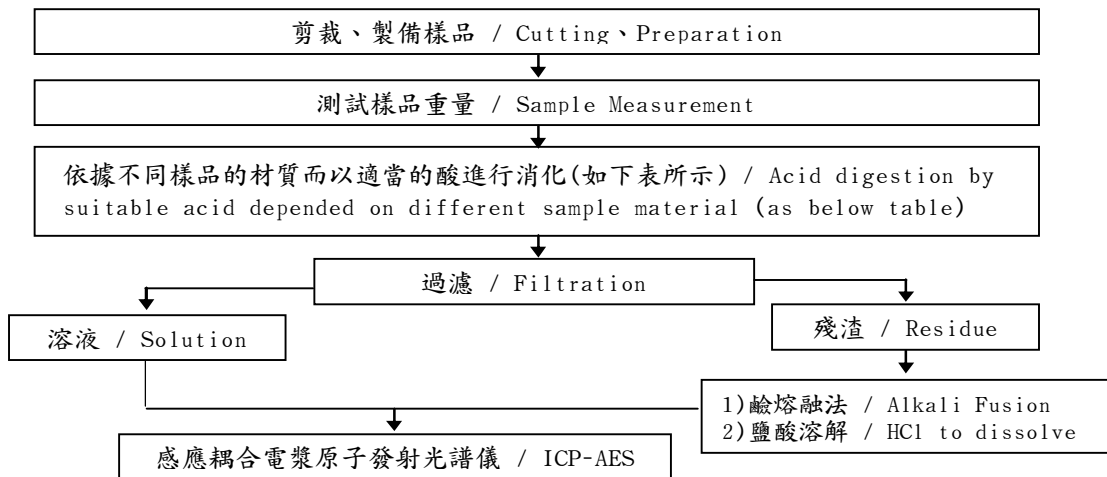
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- 1) 根據以下的流程圖之條件，樣品已完全溶解。 / These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) 測試人員：楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人：張啓興 / Name of the person in charge of measurement: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

元素以 ICP-AES 分析的消化流程圖

(Flow Chart of digestion for the elements analysis performed by ICP-AES)



鋼, 銅, 鋁, 焊錫 / Steel, copper, aluminum, solder	王水, 硝酸, 鹽酸, 氫氟酸, 雙氧水 / Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
玻璃 / Glass	硝酸, 氫氟酸 / HNO ₃ /HF
金, 鉑, 鈀, 陶瓷 / Gold, platinum, palladium, ceramic	王水 / Aqua regia
銀 / Silver	硝酸 / HNO ₃
塑膠 / Plastic	硫酸, 雙氧水, 硝酸, 鹽酸 / H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
其他 / Others	加入適當的試劑至完全溶解 / Added appropriate reagent to total digestion

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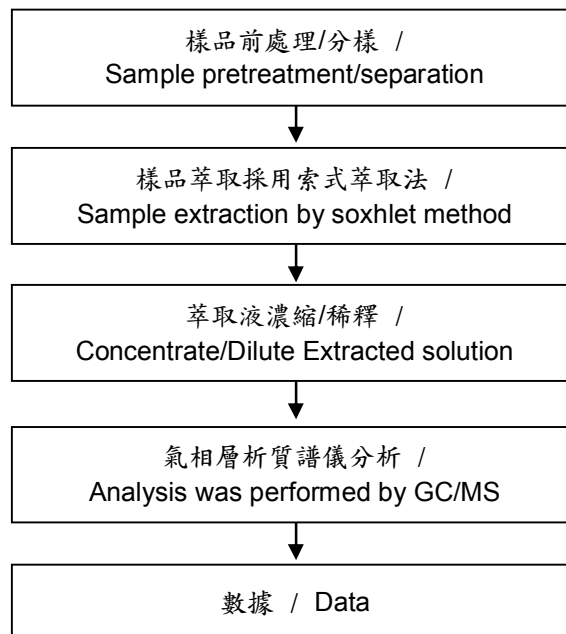
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六溴環十二烷分析流程圖 / HBCDD analytical flow chart

- 測試人員：翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



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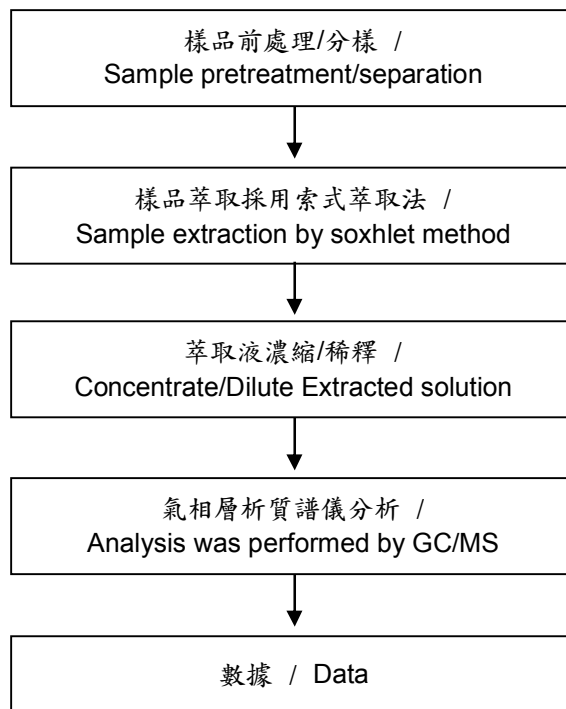
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可塑劑分析流程圖 / Analytical flow chart of phthalate content

- 測試人員：翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



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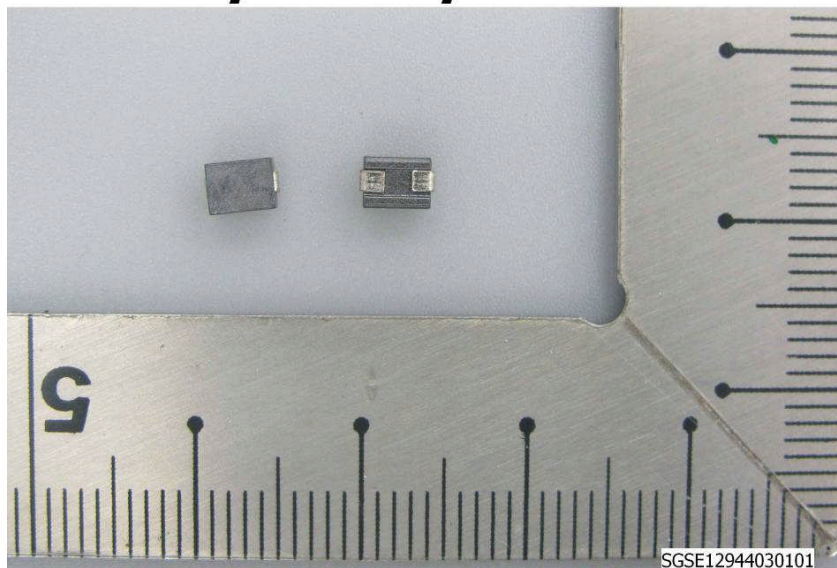
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* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。 *

(The tested sample / part is marked by an arrow if it's shown on the photo.)

CE/2012/94403



** 報告結尾 (End of Report) **

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