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鼎翰科技股份有限公司

產品規格書 暨 樣品承認書

1. 產品規格書編號: 60-0480003-10LF

2. 品名: Chip Antenna/ SMD 天線 AT9520-B2R4HAAT/LF(嘉光)

3. 產品規格書與樣品承認書履歷:

版次	修訂履歷	ECO 或 ECN 編號	生效日期	樣 品 料 號
A	新訂		2015.11.12	60-0480003-10LF

4. 已承認樣品清册:

項	送已赵张	外號 版次 製造商		承認日期	承認	型式	舊樣品處理	
次	136 00 17 30	MX-X	/供應商	小心口切	限量	正式	留用	廢止
1	60-0480003-10LF	Α	嘉光	2015. 07. 17		V		

鼎翰科技股份有限公司

******* 樣品承認書 ********

項	樣品料號	版	類別		廠商名稱	品名規格	送樣日期
次		次	製造商	代理商			
1	60-0480003-10LF	А			嘉光科技股份有 限公司(嘉光科 技)	Chip Antenna/ SMD天 線 AT9520- B2R4HAAT/LF(嘉光)	2015/07/14

1. 樣品承認測試項目:

1. 依旧不認例訊項日	•	
A. 採購部:(書面資	予料需一式2份及樣品2份。除非另有說明	樣品數量:)
A.1 送樣目的:■	新開發 □設變 □新廠商 □廠商設	變 備註:
A.2 規格資料:(請	青勾選)	
□規格書	□供應商測試報告 □色卡	
□材質證明	□供應商可靠性測試報告 ■廠商材料	科安規證書
廠商承認書	□其他 備註:	
	坦安卫· 九班垣 9015/07/11	随伏塬 2015/07/11
	灰余泊・ 計准好 2013/07/14	浓浓漉 2013/01/14
 B. 工程部:		
B.1 使用機種: □]全系列 ■機種 :MFi BT module f	or T048 T052
B.2 樣品測試: □]免驗 ■合格 □不合格 ,補充訪	2明:
B.3 規格確認:	符合 □不符合 □需補充:	
B.4 材質認可:	免驗 □合格 □不合格,材質種	重類說明:
B.5 安規認可: 🗌]不需要 ■合格 □需重測,安規種	重類說明:
B.6 模具認可:	不需要 □合格 □不合格,模具種	重類說明:
B.7 治具製作:	不需治具 □需治具 ,治具種類說明:	
B.8 檢驗重點:	不需要 □需標示 ,標示說明:	
B.9 認可結果:	允收 □拒收 ,補充說明:	
		47.147.0015/07/17
	認り 有 ・	何大任 2010/01/11
C. 品保單位:		
C.1 樣品測試:	▶免驗 □合格 □不合格 ,補充說明	1:
C.2 壽命測試:	▋免驗 □合格 □不合格 ,補充說明	1:
	認可者:	翁詩婉 2015/10/15

鼎翰科技股份有限公司

- D. 品管單位:
 - D.1 規格確認:
 ●符合
 □不符合
 □需補充
 :

 D.2 安規認可:
 ■不需要
 □符合
 □不符合
 ,安規種類說明:

 D.3 檢驗重點:
 □不需要
 ■已標示
 □需重新標示
 ,標示說明:

 D.4 RoHS檢測:
 ■允收
 □拒收
 ,補充說明:

 D.5 認可結果:
 ■允收
 □拒收
 ,補充說明:

認可者: 景昆山 2015/11/10 吳承翰 2015/11/05

2. 產品規格書與樣品承認書發行紀錄:

- A. 工程部:
 - A.1 規格書版別確認:

版次	修訂履歷	ECO 或 ECN 編號	生效日期	樣品料號
A	新訂		2015/11/12	60-0480003-10LF

A.2 樣品版本確認與舊樣品處理:

項	樣品料號	版次	製造商	承認日期	舊樣品	處理
次			/供應商		留用	廢止
1	60-0480003-10LF	А	嘉光科技股份有 限公司	2015/07/17		

A.3 過期樣品回收: ■研發工程 □品保 □供應商 □其他

認可者:

林婉霖 2015/11/12

GainForce Technology Co.,Ltd

嘉光科技股份有限公司

APPROVAL SHEET										
品名: MODEL NAME _	Chip Ant	ennas	_							
料 號:	60-04800									
PART NUMBER _ 客戶名稱: CUSTOMER		分有限公司								
供應商: VENDOR _	嘉光科技股份	分有限公司	_							
使用機種: MODEL_			_							
聯 絡 人:_	高妍希	Joanna								
聯絡電話:_	+886-960-	119-101								
附 件: ACCESSORIES	■規格書 SPECIFICATION ■圖樣 DRAWING	■樣品 SAMPLE □檢驗報告 TEST REPORT								
認可狀況: (APPROVED STATUS)	● 小田田田 ● 104年11月1 ● 横 日版									

R&D / PE / QC /PURCHASE / VENDOR

APP.NO.:



AT9520 Series

Multilayer Chip Antenna

Features

- Monolithic SMD with small, low-profile and light-weight type.
- Wide bandwidth

Applications

2.4GHz WLAN, Home RF, Bluetooth Modules, etc.

Specifications



Part Number	Operating Frequency (MHz)	Operating Frequency (MHz) Peak Gain (XZ-V)		VSWR	Impedance			
AT9520- B2R4HAA_	2400~2500	3.0 dBi typ.	1.0 dBi typ.	2 max.	50 Ω			
Q'ty/Reel (pcs) : 1000pcs Dperating Temperature Range : -40 ~ +85 °C								

Operating Temperature Range Storage Temperature Range Storage Period Power Capacity

: +5 ~ +35 °C, Humidity 45~75%RH

: 12 months max.

: 2W max.

Part Number



① Туре	AT : Antenna	② Dimensions (L × W)	9.5× 2.0 mm
③ Material Code	В	Initial center frequency	2R4=2400MHz
Specification Code	HAA	6 Packaging	T: Tape & Reel B: Bulk

Terminal Configuration

ĺ				No.	Terminal Name	No.	Terminal Name
2		0	D	1	Feeding Point	2	NC



Unit : mm

Dimensions and Recommended PC Board Pattern

(a) Without Matching Circuits (Moderate Bandwidth)



(b) With Matching Circuits (Wide Bandwidth)



*Line width should be designed to match 50 Ω characteristic impedance, depending on PCB material and thickness.



Typical Electrical Characteristics (T=25°C)

✤Test Board



♦Return Loss



(b) With Matching Circuits





♦Radiation Patterns



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Taping Specifications

*Tape & Reel Dimensions (Unit: mm) vs. Quantity (pcs)



TAPE

Туре	А	A'	В	С	D	Е	F	т	Quantity/per reel	Tape material
AT0520	4.0±	4.0±	2.35±	9.7±	2.0±	7.5±	16.0±	1.40±	1.000pcc	Plastic
A19520	0.1	0.1	0.1	0.1	0.05	0.1	0.1	0.1	1,000pcs	(Embossed)

♦ Reel Dimensions (Unit: mm)



*Leader and Trailer Tape





♦Peel-off Force



Peel-off force should be in the range of $0.1-0.6\ N$ at a peel-off speed of $300\pm10\ mm/min$.

Storage Conditions

- (1) Temperature: $15 \sim 35^{\circ}$, relative humidity (RH): $45 \sim 75^{\circ}$.
- (2) Non-corrosive environment

Notes

The contents of this data sheet are subject to change without notice. Please confirm the specifications and delivery conditions when placing your order.



Mechanical & Environmental Characteristics

ltem		Requirements		Procedure
Solderability	1. 2.	No apparent damage More than 95% of the terminal electrode shall be covered with new solder	1. 2.	Preheat: 120 ± 5 °C Solder: 245 ± 5 °C for 5 ± 1 sec
Soldering strength (Termination Adhesion)	1.	1kg minimum	1. 2.	Solder specimen onto test jig. Apply push force at 0.5mm/s until electrode pads are peeled off or ceramic are broken. Pushing force is applied to longitude direction
Deflection (Substrate Bending)	1.	No apparent damage	1.	Solder specimen onto test jig (FR4, 0.8mm) using the recommend soldering profile. Apply a bending force of 1mm deflection Pressure Rod R230 90mm
Heat/Humidity Resistance	1. 2.	No apparent damage Fulfill the electrical specification after test	1. 2. 3. 4.	Temperature: 85± 2°C Humidity: 90% ~ 95% RH Duration: 1000±48hrs Recovery: 1-2hrs
Thermal shock (Temperature Cycle)	1. 2.	No apparent damage Fulfill the electrical specification after test	1. (2. ľ 3. í	One cycle/step 1 : 125 ± 5°C for 30 min step 2 : - 40 ± 5°C for 30 min No of cycles : 100 Recovery:1-2 hrs
Low Temperature Resistance	1. 2.	No apparent damage Fulfill the electrical specification after test	1. 2. 3.	Temperature: -40°± 5 °C Duration: 500 ±24hrs Recovery: 1-2hrs



Soldering Conditions

*Typical Soldering Profile for Lead-free Process

Reflow Soldering :



Notes

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Advanced Ceramic X Corp. 16 Tzu Chiang Road, Hsinchu Industrial District Hsinchu Hsien 303, Taiwan TEL:886-3-5987008 FAX:886-3-5987001 E-mail: acx@acxc.com.tw http://www.acxc.com.tw



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ADVANCED CERAMIC X (ACX) CORPORATION 16, TZU CHIANG ROAD, HSINCHU INDUSTRIAL DISTRICT, HSINCHU HSIEN, TAIWAN 303

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

Sample Submitted By	:	ADVANCED CERAMIC X (ACX) CORPORATION
Sample Description	:	MULTILAYER LTCC-A COMPONENTS
Style/Item No.	:	AD SERIES, AT SERIES, BD SERIES, BF SERIES, BL SERIES, BM SERIES, BW SERIES, CD SERIES, CF SERIES, CP SERIES, DM SERIES, DP SERIES, DS SERIES, EF SERIES, ES SERIES, FA SERIES, FB SERIES, FD SERIES, FM SERIES, GS SERIES, HI SERIES, HF SERIES, HM SERIES, HS SERIES, LF SERIES, OM SERIES, OS SERIES, PD SERIES, NF SERIES, QS SERIES, SF SERIES, TS SERIES, TP SERIES, LTCC SUBSTRATES
Sample Receiving Date	:	2014/02/12
Testing Period	:	2014/02/12 TO 2014/02/19

Test Requested : (1) As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs contents in the submitted sample.
 (2) As specified by client, to test Halogen-Fluorine, Chlorine, Bromine, Iodine contents in the submitted sample.

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



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ADVANCED CERAMIC X (ACX) CORPORATION 16, TZU CHIANG ROAD, HSINCHU INDUSTRIAL DISTRICT, HSINCHU HSIEN, TAIWAN 303

Test Result(s)

PART NAME No.1

: MULTILAYER LTCC-A COMPONENTS

Test Item(s)	Unit	Method	MDL	Result
				No.1
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	16
Mercury (Hg)	mg/kg	With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n.d.
Hexavalent Chromium Cr(VI)	mg/kg	With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.
Sum of PBBs			-	n.d.
Monobromobiphenyl	1		5	n.d.
Dibromobiphenyl	1		5	n.d.
Tribromobiphenyl	1		5	n.d.
Tetrabromobiphenyl		With reference to IEC 62321: 2008 and performed by GC/MS.	5	n.d.
Pentabromobiphenyl			5	n.d.
Hexabromobiphenyl			5	n.d.
Heptabromobiphenyl]		5	n.d.
Octabromobiphenyl	1		5	n.d.
Nonabromobiphenyl	ma/ka		5	n.d.
Decabromobiphenyl			5	n.d.
Sum of PBDEs	Пуку		-	n.d.
Monobromodiphenyl ether	1		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, TZU CHIANG ROAD, HSINCHU INDUSTRIAL DISTRICT, HSINCHU HSIEN, TAIWAN 303

Tost Itom(s)	Unit	Method	MDL	Result
rest ttem(s)				No.1
Halogen				
Halogen-Fluorine (F) (CAS No.: 14762-94-8)		With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.
Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)			50	n.d.
Halogen-Bromine (Br) (CAS No.: 10097-32-2)	шу/ку		50	n.d.
Halogen-lodine (I) (CAS No.: 14362-44-8)	Ĩ		50	n.d.

Note :

- 1. mg/kg = ppm ; 0.1wt% = 1000ppm
- 2. n.d. = Not Detected
- 3. MDL = Method Detection Limit
- 4. " " = Not Regulated

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Fage. 5 01 7



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ADVANCED CERAMIC X (ACX) CORPORATION

16, TZU CHIANG ROAD, HSINCHU INDUSTRIAL DISTRICT, HSINCHU HSIEN, TAIWAN 303

- 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: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang



Note**: (1) For non-metallic material, add alkaline digestion reagent and heat to 90~95°C. (2) For metallic material, add pure water and heat to boiling.

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PBB/PBDE analytical FLOW CHART

- Name of the person who made measurement: Roman Wong
- Name of the person in charge of measurement: Troy Chang



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ADVANCED CERAMIC X (ACX) CORPORATION 16, TZU CHIANG ROAD, HSINCHU INDUSTRIAL DISTRICT, HSINCHU HSIEN, TAIWAN 303

Analytical flow chart of halogen content

- Name of the person who made measurement: Rita Chen
- Name of the person in charge of measurement: Troy Chang



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



** End of Report **

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ACX Corporation 16 Tzu Chiang Road, Hsinchu Industrial District Hsinchu Hsien, Taiwan, 30316 TEL: 886-3-5987008 FAX: 886-3-5987001 E-mail : acx@acxc.com.tw Web site: www.acxc.com.tw

1

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CERTIFICATE OF COMPLIANCE

PART NUMBER : AT9520-B2R4HAAT/LF LOT NUMBER : 150811035-0X MEASURED DATE: 2015/7/9 MEASUREMENT EQUIPMENT : HP8722D

TEST	CRITERIA	RESULT
VSWR	< 2 @ 2400~2500MHz	PASS
Peak Gain(XZ-V)	3.0dBi typ. @2400~2500MHz	PASS
Average Gain(XZ-V)	1.0dBi typ.@2400~2500MHz	PASS

Approved by:

張月平

Inspected by:

京五沙



TSC Auto ID Technology Co., Ltd.

Corporate Headquarters 9F., No.95, Minquan Rd., Xindian Dist., New Taipei City 23141, Taiwan TEL: +886-2-2218-6789 FAX: +886-2-2218-5678 Web site: www.tscprinters.com Li Ze Plant No.35, Sec. 2, Ligong 1st Rd., Wujie Township, Yilan County 25841, Taiwan TEL: +886-3-9905577 FAX: +885-3-9905577

有害物質不使用保證書

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Compliance Statement :

We hereby certify that the raw materials or products which shipped by us will comply with the following European regulations, and to the best of our knowledge, determined that none of the restrict substances are present in TSC products in amounts above 0.1% by weight. 1. Substance of Very High Concern (SVHC) Candidate List of EU Regulation 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)

2. Joint Industry Guide No. JIG-101 Ed. 4.1

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TSC Auto ID Technology Co., Ltd.

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有害物質不使用保證書

DECLARATION OF RoHS COMPLIANCE

有害物質不使用 聲明:

本公司在此保證,交貨給<u>鼎翰科技股份有限公司</u>之所有原物料或產品,均符合 RoHS 規範及相關環保法規之所有要求。如有違反上述情事,本公司顧意賠償<u>鼎翰科技股份</u> 有限公司因此所受之相關損害費用。本聲明書自本公司蓋章後生效。

RoHS Compliance Statement

We declare that the raw materials or products which shipped by us will comply with The European Directive 2011/65/EU (Restriction of the use of Certain Hazardous Substance in Electrical and Electronic Equipment) which prohibits the following substance in electrical and electronic equipment.

- 1. Lead (Pb): Less than 1,000 ppm (錄)
- 2. Cadmium (Cd): Less than 100 ppm (鍋)
- 3. Mercury (Hg): Less than 1, 000 ppm. (未)
- 4. Hexavalent Chrome (CrVI): Less than 1,000 ppm (六價格)
- 5. Polybrominated Biphenyle (PBB): Less than 1000 ppm (聚溴聯苯)
- 6. Polybrominated Diphenyl Ethers (PBDE): Less than 1000 ppm (聚溴二苯醚)

公 司 名 稱: 嘉光科技股份有限公司

(Company Name)

公司員責人: 周敬涵

(Company Representative)

