

承認書

Specification for Approval

客戶名稱 : 鉅康科技股份有限公司

客戶型號:

客戶料號:

翔訊型號 : SC-323B2

PIFA Antenna

Date: 2008/06/18

Customer Approval

翔訊科技有限公司

Soarcomm Technology Company

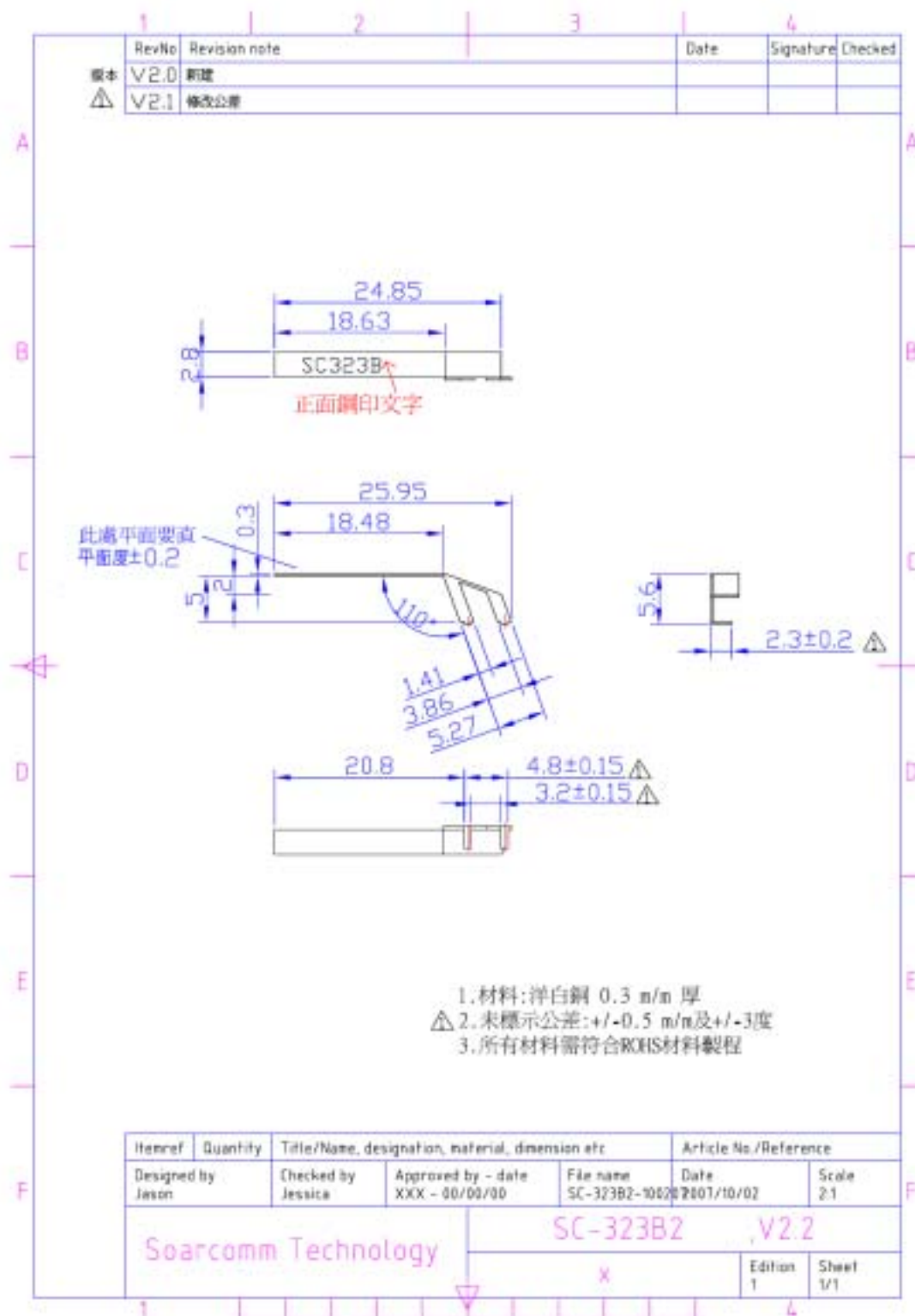
Tel: 02-2625-2547 Fax: 02-8631-2232

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I. Outline drawing

Part No: SC-323B2 PIFA ANTENNA



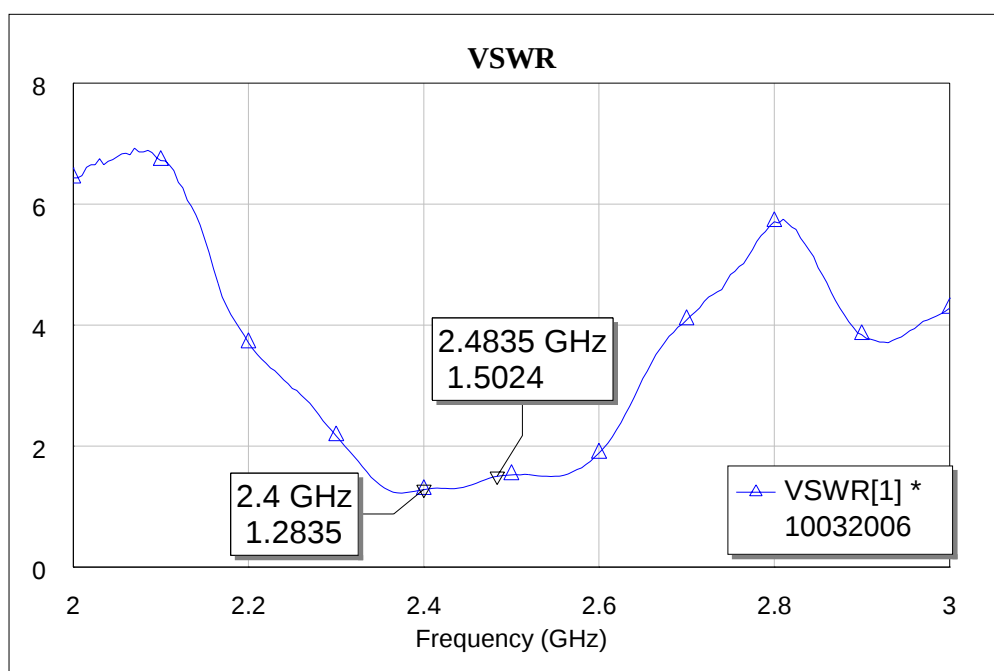
II. Electrical Properties:

- | | |
|-----------------------|----------------------|
| 1. Frequency Range: | 2.4-2.485 GHz |
| 2. Impedance: | 50 Ohms |
| 3. V.S.W.R: | 2.0(Max.) |
| 4. Gain: | 2.0(Max.) |
| 5. Polarization: | Vertical |
| 6. Radiation: | Omni |
| 7. Electrical Length: | $1/4 \lambda$ Dipole |

III. Mechanical Properties:

- | | |
|---------------------------|---------------|
| 1. Operation Temperature: | -20°C ~ +70°C |
| 2. Storage Temperature: | -30°C ~ +80° |

IV. Input Impedance Reports



V. Antenna Pattern Reports (2.4GHz, 2.45GHz, 2.48GHz)



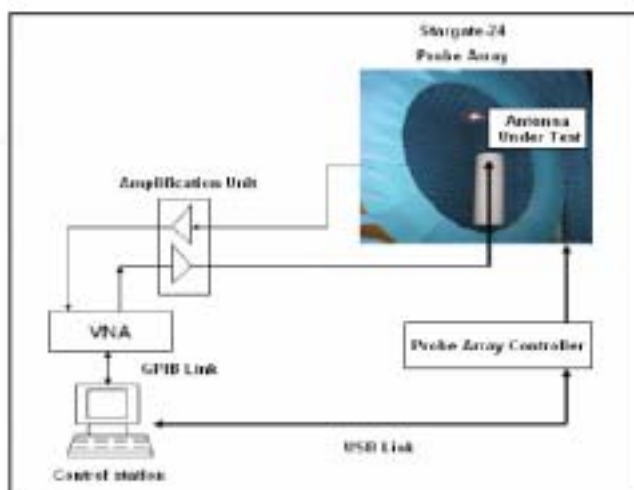
CTIA Authorized Test Lab
LAB CODE 2006PT3-40
 Report No.: EO/2006/10032
 Page No.: 1 of 4

OTA Summation Test Report
 Date: October 04, 2006

Basic Information

Company Name	SoarComm Technology Company
Company Address	台北縣淡水鎮大智街22號1樓
Product Category	Antenna
Product Model Name	B5H-191 (SC-323B)
Tested By (Satimo Stargate-24)	SGS Taiwan Ltd. / E&E Laboratory 134, Wu Kung Road, Wuku Industrial Zone, Taipei County, Taiwan, R.O.C.

Test Setup



Test Procedures

1. Before measuring EUT, it is necessary to check system deviation by standard sleeve dipoles. If testing results are unacceptable, it is necessary to recalibrate the measuring system.
2. The EUT was placed on the top of turntable, and the position of EUT has to be adjusted to the center of the probe array arch by two axes of laser. The distance from the center of the arch to each probe is 1.2 meters.

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LAB CODE 10060711-08

Report No.: EO/2006/10032

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3. The VNA output a power of level -25dBm to the EUT at considered frequencies.
4. The turntable will be rotated horizontally from 0 degree to 165 degrees with step 15 degrees in each step during the measurement.
5. In each step, the radiated power of the EUT in different directions will be received by 23 probes each separated by 15 degrees and then measured by the Agilent VNA one by one.
6. The antenna gain and efficiency will be post-processed by the Satimo software.

Product Photos



Antenna Gain and Efficiency

BSH-191 (SC-323B)			
Frequency	E Total. dB	Efficiency	Efficiency . dB
2400000000	3.68	0.74	-1.33
2450000000	4.51	0.93	-0.30
2485000000	4.67	0.95	-0.22

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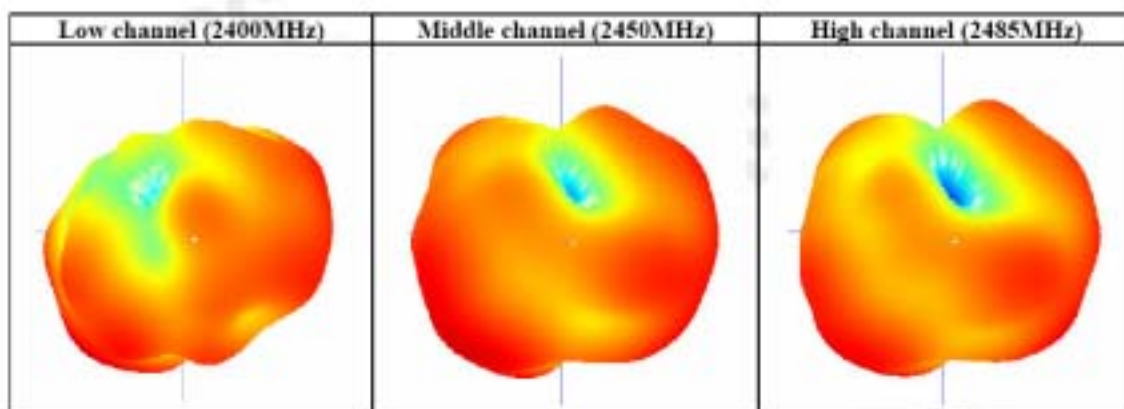
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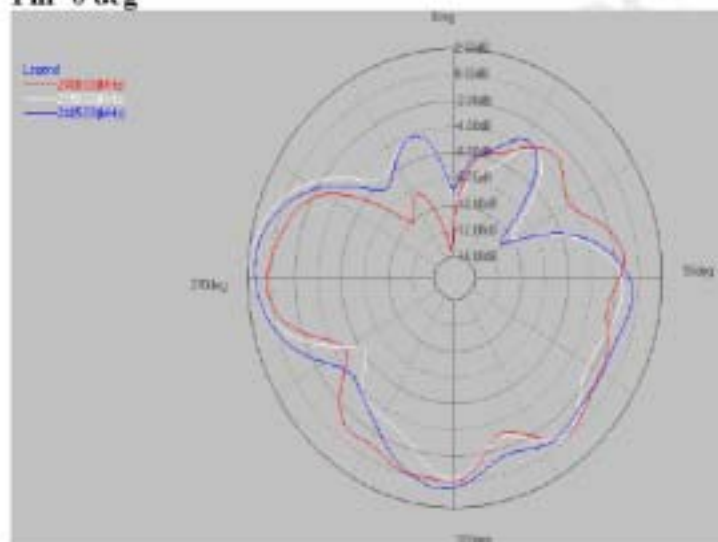
Page No.: 3 of 4

Antenna 3D Graph

All plots in this section show the E Total dB with the +x-axis pointing out of the page, +y-axis pointing right, and +z-axis pointing up.

**Antenna 2D Graph**

Phi=0 deg



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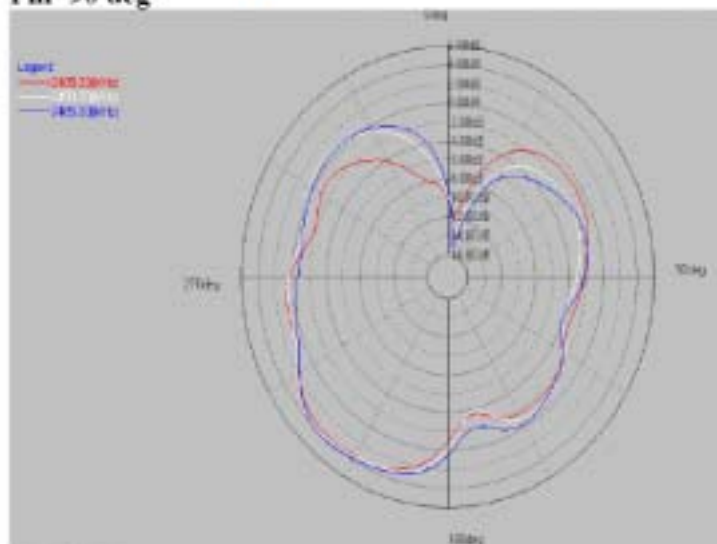
CTIA Authorized Test Lab

LAB CODE 1000711-00

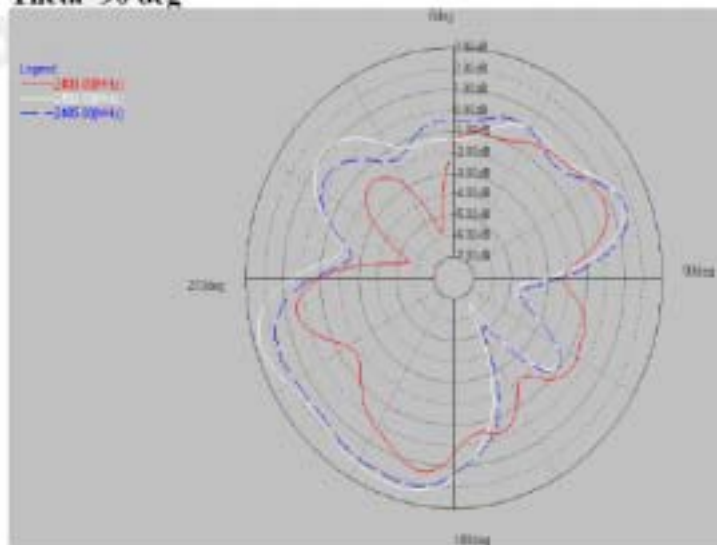
Report No.: EO/2006/10032

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Phi=90 deg



Theta=90 deg



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VI. RoHS Test Report



測試報告

號碼：CE/2006/C2995 日期：2006/12/20 頁數：1 of 3

翔試科技有限公司

SOARCOMM TECHNOLOGY COMPANY

台北縣淡水鎮大智街22號1樓

1F., NO. 22, DAZHI ST., DANSHUI TOWN, TAIPEI COUNTY 251,
TAIWAN (R. O. C.)

本報告為客戶所委託的樣品。樣品名稱為"ANTENNA"所做的測試。

Report on the submitted sample said to be ANTENNA.


 樣品型號(Sample/Item No) : SC-323 SERIES
 收件日期(Sample Receiving Date) : 2006/12/13
 測試期間(Testing Period) : 2006/12/13 TO 2006/12/20

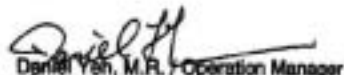
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測試需求 / Test Requested : 參照 RoHS 2002/95/EC 及其修定指令要求。 / In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

測試方法 / Test Method : (1) 參考BS EN 1122方法B:2001, 用感應耦合電漿原子發射光譜儀檢測鎘含量。 / With reference to BS EN 1122:2001, Method B for Cadmium Content. Analysis was performed by ICP-AES.
 (2) 參考US EPA 3050b方法, 用感應耦合電漿原子發射光譜儀檢測鉛含量。 / With reference to US EPA Method 3050B for Lead Content. Analysis was performed by ICP-AES.
 (3) 參考US EPA 3052方法, 用感應耦合電漿原子發射光譜儀檢測汞含量。 / With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.
 (4) 針對金屬材質之樣品, 參考IEC 62321, Ed. 1 111/54/CIV方法檢測, 用Spot test / Colorimetric方法檢測六價鉻含量。 / With reference to IEC 62321, Ed.1 111/54/CIV, Determination of Hexavalent Chromium for metallic samples by Spot test / Colorimetric Method.

測試結果 / Test Result(s) : 請見下一頁。

結論 / Conclusion : 根據客戶所提供樣品的測試結果, 符合RoHS(2002/95/EC)及其修定指令之要求。 / Based on the performed tests on submitted samples, the test results are compliant with the limits of RoHS Directive 2002/95/EC and its subsequent amendments.


 Daniel Yen, M.P., Operation Manager
 Signed for and on behalf of
 SGS TAIWAN LTD.

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SGS TAIWAN LIMITED No. 136-1, Wu Kung Road, Wenku Industrial Zone, Taipei county, Taiwan.
 tel:886-2) 22960333 fax:886-2) 2296-3237 www.sgs.com.tw



測試報告

號碼：CE/2006/C2995

日期：2006/12/29

頁數：2 of 3

和訊科技有限公司

SOARCOMM TECHNOLOGY COMPANY

台北縣淡水鎮大智街22號1樓

1F., NO. 22, DAZHI ST., DASHUI TOWN, TAIPEI COUNTY 251,
TAIWAN (R. O. C.)

測試結果 (單位: mg/kg) / Test Result(s)

測試項目 / Test Item (s):	測試方法 Method (Refer to)	結果 / Result	方法偵測 極限值 (MDL)	RoHS 限值
		No.1		
鎘 / Cadmium (Cd)	(1)	n.d.	2	100
鉛 / Lead (Pb)	(2)	16.8	2	1000
汞 / Mercury (Hg)	(3)	n.d.	2	1000
六價鉻 / Hexavalent Chromium (CrVI) by Spot test / boiling water	(4)	Negative	See Note 4	#

測試部位描述 / Test Part Description:

NO.1 : 銀色金屬 / SILVER COLORED METAL

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. Spot-test:

Negative = Absence of CrVI coating, Positive = Presence of CrVI coating.

(The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed.)

Negative=鍍層中檢測不到六價鉻, Positive= 鍍層中檢測到六價鉻;

當檢測項無法確認時, 測試樣品可藉由boiling-water-extraction測試方法進一步確認

Boiling-water-extraction:

Negative = Absence of CrVI coating

Positive = Presence of CrVI coating; the detected concentration in
boiling-water-extractionsolution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.

Negative=鍍層中檢測不到六價鉻, Positive=鍍層中檢測到六價鉻;

該濃度溶液≥0.02 mg/kg with 50 cm² (sample surface area)5. # = Positive indicates the presence of Hexavalent Chromium on the tested areas
and result be regarded as not comply with RoHS requirement.

Positive表示測試區域之六價鉻不符合RoHS要求

Negative indicates the absence of CrVI on the tested areas and result be regarded

Negative表示測試區域之六價鉻符合RoHS要求

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測試報告

號碼：CE/2006/C2995 日期：2006/12/20 頁數：3 of 3

翔訊科技有限公司

SOARCOMM TECHNOLOGY COMPANY

台北縣淡水鎮大智街22號1樓

1F., NO. 22, DAZHI ST., DANSHUI TOWN, TAIPEI COUNTY 251,

TAIWAN (R. O. C.)



** 報告結尾 **

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VII. Resistance To Soldering Heat By "Solder Dip" Report



TEST REPORT

Report No.: HCO0017A/2006
Page: 1 of 4
Date: November 7, 2006

SOARCOMM TECHNOLOGY COMPANY
1F, NO.22, DAZHI ST., DANSHUI TOWN,
TAIPEI COUNTY, TAIWAN, R.O.C.

The following merchandise was submitted and identified by the vendor as:

Product Description: FIFA Antenna
Style/ Item No.: SC-323B/ No.1~ No.5
Quantity: Total 5 pieces

We have tested the submitted sample(s) as requested and the following results were obtained:

Test Required : (According to client's test specification, please see following sheets in detail.)

Resistance to Soldering Heat

By Solder Dip
- Simulates hot solder dipping (tinning) of leaded components.

Test Object: The test purpose is to determine whether wire and other component parts can withstand the effects of the heat to which they will be subjected during soldering process.

Test Results: - PLEASE SEE ATTACHED SHEETS -



Cedric Chen
Asst. Supervisor

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TEST REPORT

Report No.: HCO0017A/2006

Page: 2 of 4

1. Resistance to Soldering Heat by Solder Dip:Test Equipment:

Name	Brand	Model	Serial No.
Solderability Tester	Multicore	MUST II PLUS	9652

Materials:

Name	Brand	Designation	Chemical Composition
Solder	SENJU	M705E	Sn/3.0Ag/0.5Cu
Flux	Sharemate	SM/NA (Unactivated)	25 wt.% of Colophony in 75wt.% of 2-propanol

Lab Environmental Conditions:Ambient temperature: $25 \pm 3^\circ\text{C}$ Relative humidity: $55 \pm 20\% \text{RH}$ Test Method/ Specification:Test Method: Reference to MIL-STD-202G Method 210F Test Condition BSample Condition: See below item marked "●".

● As-received condition

Specimen shall be cleaned

(Immersed in a neutral organic solvent at room temperature and dried in air)
--

Type of Flux: UnactivatedSolder Composition: Sn/3.0Ag/0.5CuTest Temperature: $260 \pm 5^\circ\text{C}$ Immersion Angle: 90° Immersion/Emersion Rate: $25 \pm 6 \text{ mm/s}$ Immersion Depth: Terminations shall be immersed to within 1.27 mm of the component body or to the seating plane (whichever is further from the component body)Dwell Time: $10 \pm 1 \text{ seconds}$

* Leads should be immersed in the flux for 5 to 10 seconds before soldering.

* If flux used, all leads shall have all visible flux residues removed by alcohol before examination.

Number of Heat Cycles: 1 time(s)Test Requirement: Examine the appearance of specimens visually before and after this test.Note: The component shall be placed on the FR-4 mounting board during test.

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**TEST REPORT**

Report No.: HCO0017A/2006

Page: 3 of 4

Specimen:Style/ Item No.: SC-323B/ No.1~ No.5Quantity: 5 piece(s)Test Result:

Resistance to Soldering Heat by Solder Dip

Check Item Style/ Item No.	Initial Inspection	Final External Visual
	Any visible defect be found?	Any external defect be found?
SC-323B/ No.1	No	No
SC-323B/ No.2	No	No
SC-323B/ No.3	No	No
SC-323B/ No.4	No	No
SC-323B/ No.5	No	No

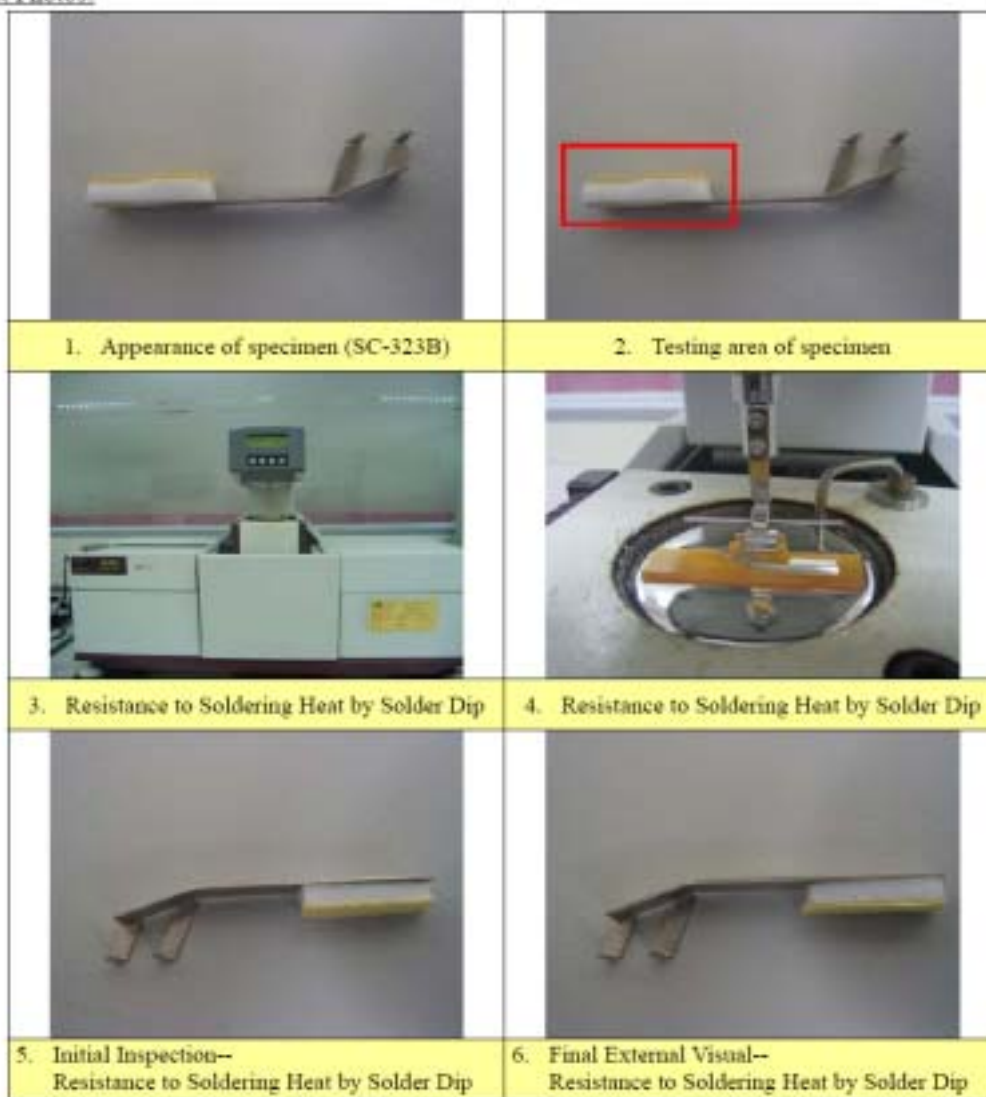
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**TEST REPORT**

Report No.: HCO0017A/2006

Page: 4 of 4

Test Photos:

— — — The End of Test Report — — —

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VIII. Resistance To Soldering Heat By “Solder Iron” Report



TEST REPORT

Report No.: HCD0004/2006
Page: 1 of 4
Date: December 5, 2006

SOARCOMM TECHNOLOGY COMPANY
1F, NO. 22, DAZHI ST., DANSHUI TOWN,
TAIPEI COUNTY, TAIWAN, R.O.C.

The following merchandise was submitted and identified by the vendor as:

Product Description: Antenna
Style / Item No: SC-323 / No.1~ No.5
Quantity: Total 5 pieces
Testing Period: Dec. 1, 2006 to Dec. 4, 2006

We have tested the submitted sample(s) as requested and the following results were obtained:

Test Required : (According to client's test specification, please see following sheets in detail.)

Resistance to Soldering Heat

By Solder Iron

- Hand soldering of solder cups, through hole components, tab and post terminations, solder eyelet terminations.

Test Object: The test purpose is to determine whether wire and other component parts can withstand the effects of the heat to which they will be subjected during soldering process.

Test Results: - PLEASE SEE ATTACHED SHEETS -



Cedric Chen
Asst. Supervisor

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Reliability Laboratory

TEST REPORT

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I. Resistance to Soldering Heat by Solder Iron:Test Equipment:

Name	Brand	Model	Serial No.
Digital Desoldering Station	Hakko	937	937103008845

Materials:

Name	Brand	Designation	Chemical Composition
Solder Wire	SENJU	M705-F3 1.0mm	Su/3.0Ag/0.5Cu

Lab Environmental Conditions:Ambient temperature: $25 \pm 3^{\circ}\text{C}$ Relative humidity: $55 \pm 20\% \text{RH}$ Test Method/ Specification:

Test Method: Reference to MIL-STD-202G Method 210F Test Condition A

Sample Condition: See below item marked "●".

● As-received condition
Specimen shall be cleaned (Immersed in a neutral organic solvent at room temperature and dried in air)

Test Procedure: The solder iron shall be heated to designated temperature and applied to the termination for a designated duration. The solder and iron shall be applied to the area of the assembly closest to the component body that the product is likely to experience. Remove the iron and allow the component to cool and stabilize at room ambient conditions. Then examine the component visually under 10X magnification.

Temperature: $400 \pm 10^{\circ}\text{C}$

Duration: 5 seconds

Number of Heat Cycles: 1 time(s)

Note: The component shall be placed on the FR-4 mounting board during test.

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Specimen:

Style / Item No.: SC-323 / No.1 ~ No.5

Quantity: 5 piece(s)

Test Result:

Resistance to Soldering Heat by Solder Iron

Check Item Style / Item No.	Initial Inspection	Final External Visual
	Any visible defect be found?	Any external defect be found?
SC-323 / No.1	No	No
SC-323 / No.2	No	No
SC-323 / No.3	No	No
SC-323 / No.4	No	No
SC-323 / No.5	No	No

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Test Photos:



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