

承認書

Specification for Approval

客戶名稱:光寶科技股份有限公司

客戶型號: BMH-280

客戶料號: 20-01969-00A

翔訊型號:SC-325B

PIFA Antenna

Date: 2006/12/19

Customer Approval

翔訊科技有限公司

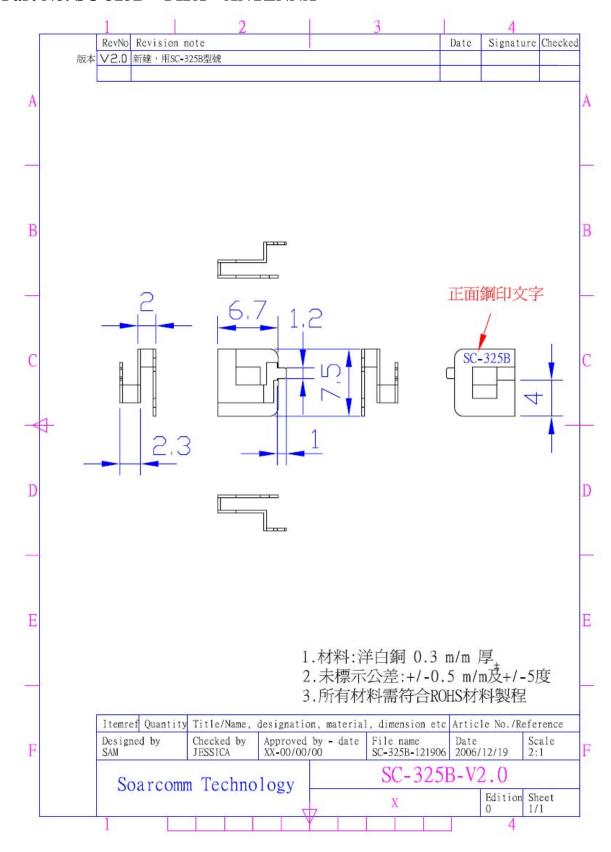
Soarcomm Technology Company

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



I. Outline drawing

Part No: SC-325B PIFA ANTENNA





Soarcomm Technology Company

II. Electrical Properties:

1. Frequency Range: 2.4-2.485 GHz

Impedance: 50 Ohms
 V.S.W.R: 2.0(Max.)
 Gain: 2.0(Max.)
 Polarization: Vertical

6. Radiation: Omni

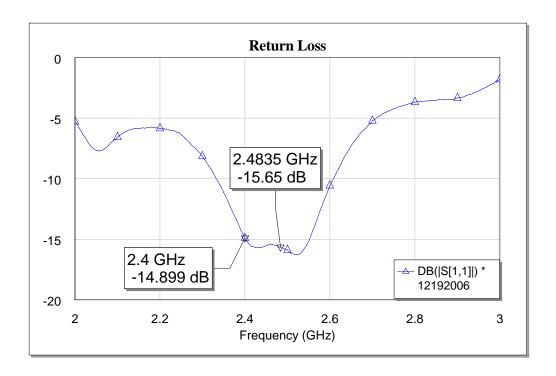
7. Electrical Length: $1/4 \lambda$ Dipole

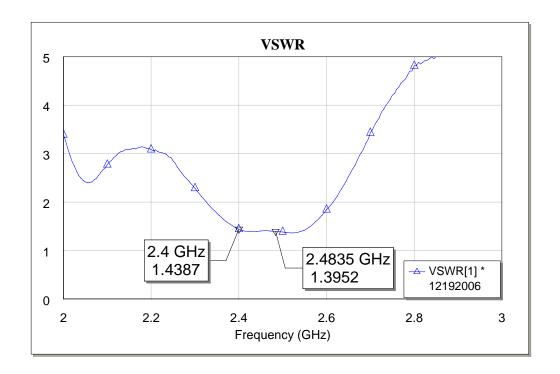
III. Mechanical Properties:

Operation Temperature: -20°C ~ +70°C
 Storage Temperature: -30°C ~ +80°



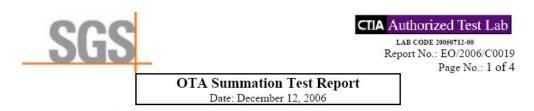
IV. Input Impedance Reports







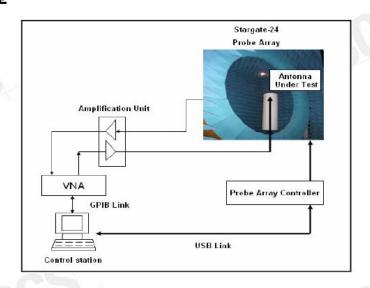
V. Antenna Pattern Reports (2.4GHz, 2.45GHz, 2.48GHz)



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	BMH-280 (SC-325)				
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

- 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.
- 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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 SGS Taiwan Ltd.
 No.134, Wu Kung Road, Wuku Industrial Zone, Taipei County, Taiwan 248/台北縣五辰工業區五工路 134 號 t (886-2) 2299 - 3279

 台灣檢驗科技股份有限公司
 t (886-2) 2299 - 3279
 f (886-2) 2298 - 0488
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LAB CODE 20050712-00 Report No.: EO/2006/C0019 Page No.: 2 of 4

- 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

BMH-280 (SC-325)							
Frequency	E Total. dB	Efficiency	Efficiency . dB				
2402000000	4.62	0.75	-1.27				
2441000000	2.52	0.72	-1.41				
2480000000	2.51	0.56	-2.52				

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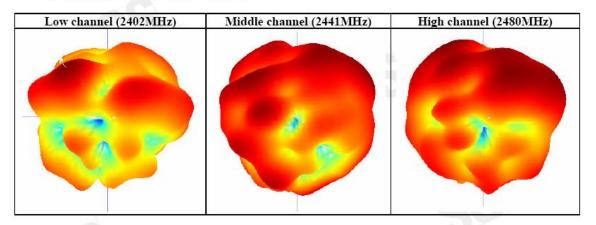




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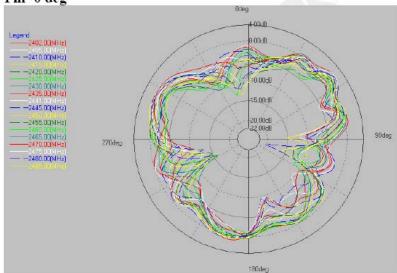
LAB CODE 20050712-00 Report No.: EO/2006/C0019 Page No.: 3 of 4

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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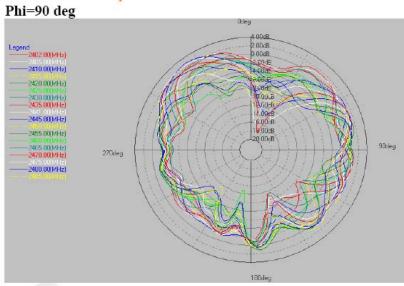


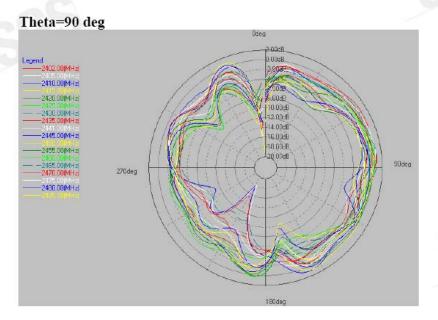
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Report No.: EO/2006/C0019

Page No.: 4 of 4





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 No.134, Wu Kung Road, Wuku Industrial Zone, Taipei County, Taiwan 248 / 台北縣五股工業區五工路 134 號 t (886-2) 2299 - 3279
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Test Report

SOARCOMM TECHNOLOGY COMPANY Report No. : CE/2006/61156

1F., NO. 22, DAZHI ST., DANSHUI TOWN, TAIPEI COUNTY Date : 2006/06/12

251, TAIWAN (R. O. C.) : 1 of 2 Page

The following merchandise was (were) submitted and identified by the client as:

Type of Product ANTENNA Style/Item No SC-3XX SERIES Sample Received 2006/06/05

Testing Date 2006/06/05 TO 2006/06/12

Conclusion The test results of Pb, Cd, Hg and Cr+6 for the submitted

sample comply with the requirements of RoHS

(2002/95/EC).

Test Result

PART NAME NO.1 SILVER COLORED METAL

PASS

Test Item (s):	77-14	Unit Method	MDL	Result No.1	Limit of ROHS
	Unit				
Chromium VI (Cr+6)	ppm	UV-VIS(US EPA 7196A) after reference to US EPA 3060A.	2	N.D.	1000
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method B:2001 or other acid digestion.	2	N.D.	100
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	N.D.	1000
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	19.1	1000

NOTE: (1) N.D. = Not detected (<MDL)

(2) ppm = mg/kg

(3) MDL = Method Detection Limit

Daniel Yeh, M.R. / Operation Manager Signed for and on behalf of

SGS TAIWAN LTD.

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Test Report

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Page : 2 of 2

: 2006/06/12



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SGS TAIWAN LIMITED

NO. 138-1, Wu Kung Road, WuKu Industrial Zone, Taipei county, Taiwan.

(886-2) 22993939 (886-2) 2299-3237 www.sgs.com.tw