



Confirmation of Material

Supplier: Shenzhen Fubang Wireless
Technology Co. , Ltd.

Model NO: K6522Q4HX

Product Name: Lower main antenna

Spec/Type:

Material code: 01.02.05.02.16522.002

Colour: Black

Address: 3/F, Building 1, Dalang Joint
Construction Science and Technology
Industrial Park, Longhua District,
Shenzhen City

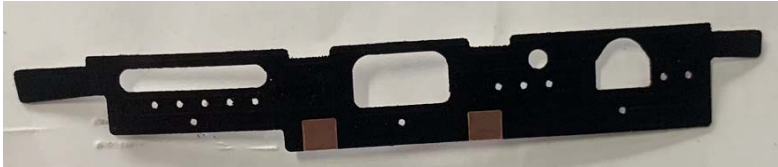
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Index

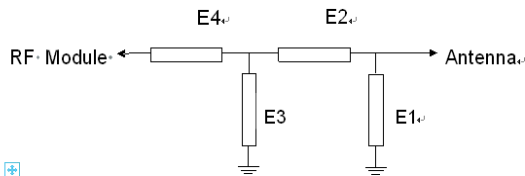
1. Specifications	3
2. Electric specifications	3
2-1 Matching circuit diagram.....	3
3. VSWR Testing	3
3-1 Testing connection	3
3-2 VSWR	3
3-3 Testing data	4
4. Test the efficiency of the antenna	4
4-1 Testing field	4
4-2 Testing results.....	4
4-3 Active testing.....	4
5. Environmental treatment.....	5
6. Engineering Draw.....	6
7. Measurement Report.....	7
8. Reliability Test Report	8
9. QC Engineering Chart.....	9
10. Gold thick Test Teport.....	10
11. Packing Specification.....	11

1、Specification

This report mainly provides the testing conditions of various electric and structural performance parameters for cell phone antenna ----K6522Q4HX Picture 1 shows the antenna designed by FUBANG.



2 、 Matching circuit diagram



Element	Value
E1(0402)	5.1nh
E2(0402)	0 Ω
E3(0402)	
E4(0402)	0 Ω
Note: 公共端 12nh,RF1=0 Ω,RF2=6.8nh,RF3=27nh, FF4=NC	

3、 VSWR Testing

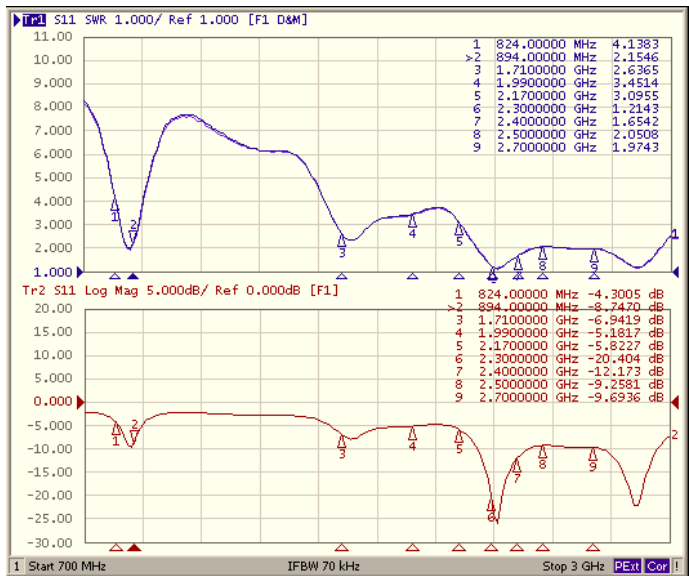
3.1 Testing connection

The VSWR testing devices are connected in sequence: Agilent5071C Network Analyzer →Testing Cable → Customer-providing Devices.

3.2 VSWR

The following table expresses the VSWR value of antenna’s two edges of its frequency range. With regard to the relevant diagram of VSWR

3.3 Testing data



K6522Q4HX DANT VSWR/Return Loss

Main antenna VSWR									
Freq(MHz)	824	894	1710	1990	2170	2300	2400	2500	2700
Free Space	4.13	2.15	2.63	3.45	3.09	1.22	1.65	2.05	1.97

4、Test the efficiency of the antenna Testing

4.1 Testing field

LR Microwave Anechoic Chamber : testing frequency ranges from 400MHz to 6GHz and the 40cm diameter spherical quiet zone, the chamber provides less than -90dB reflectivity from 400MHz—6GHz.

4.2 Testing results

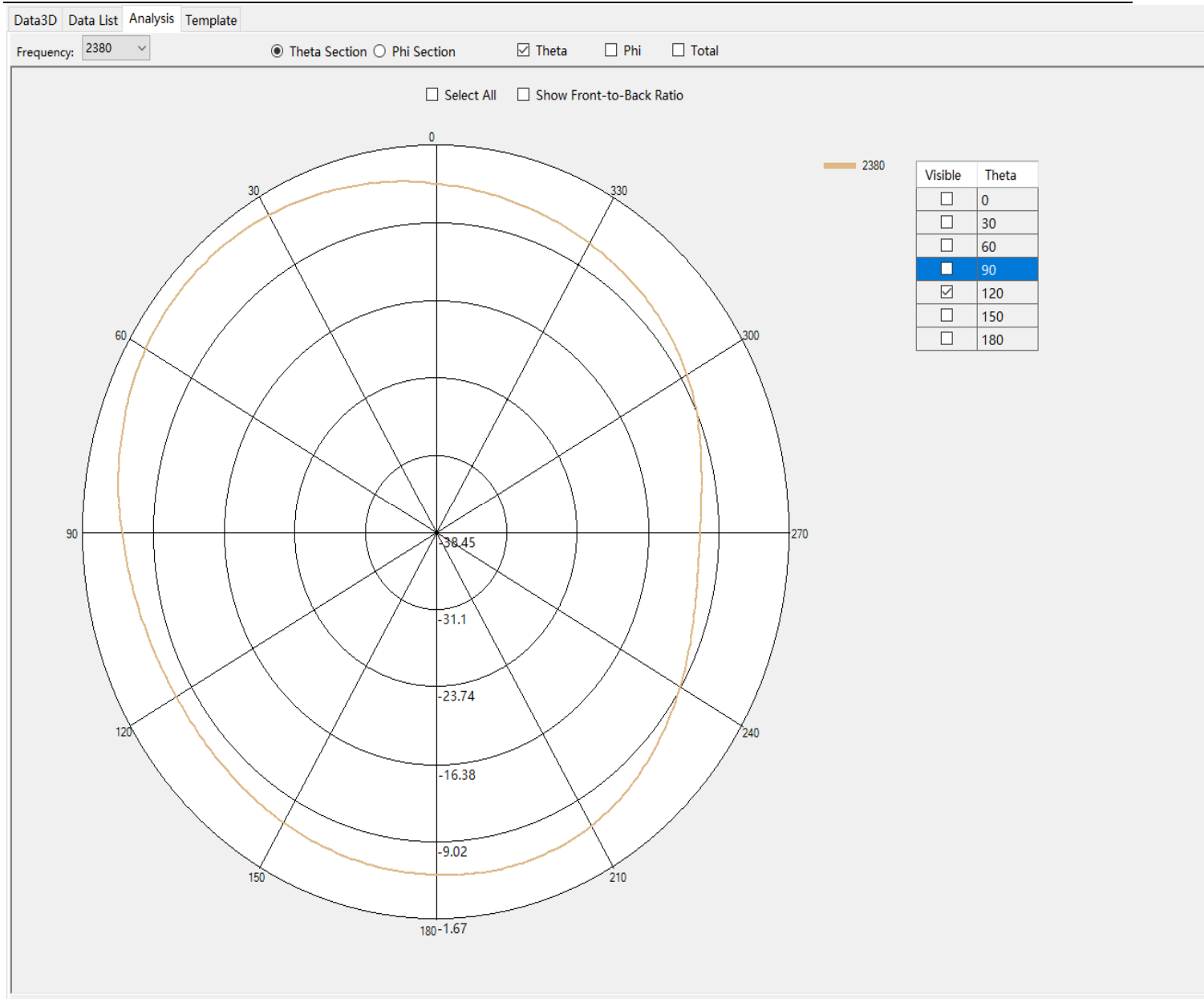
The following table indicates the testing results related to Power and Sensitivity in Microwave Anechoic Chamber, concerning the relative diagram.

Band	TRP			TIS
GSM850	26.98	27.37	27.27	-102.98
GSM900	25.5	25.78	25.57	-102.88
DCS1800	25.52	25.11	25.17	-107.33
PCS1900	27	27.03	26.81	-106.53
W1	19.57	19.36	19.39	-106.41
W2	19.36	19.23	19.37	-109.7
W4	17.45	17.65	17.86	-107.55
W5	16.65	16.41	16.26	-106.85
W8	15.8	15.7	15.9	-106.86
1	20.17	20	19.95	-96.05
2	19.94	19.9	19.97	-97.44
4	18.33	18.51	18.75	-96.72
5	17.73	17.75	17.62	-93.94
7	19.93	19.89	19.59	-94.85
8	15.95	16.08	16.02	-94.01
12	14.73	14.99	15.16	-92.62
13	16.05	16.13	15.76	-96.04
28	16.48	16.61	16.94	-92.76
66	16.73	16.45	15.47	-91.56

Antenna Gain

Band	Gain (dBi)
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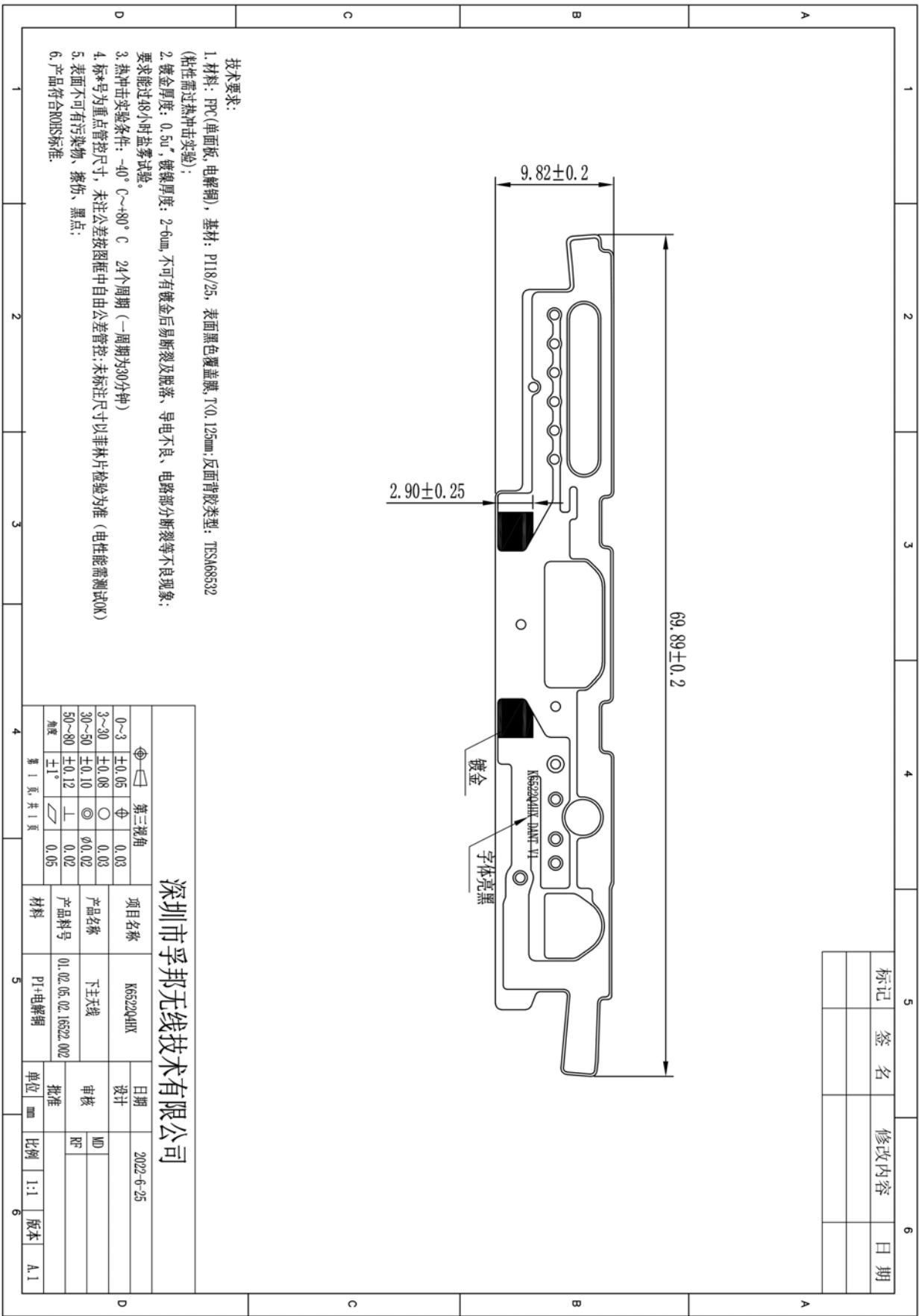
GSM850	-2.8
GSM900	-2.8
DCS1800	-2.4
PCS1900	-2.2
W1	-2.1
W2	-2.2
W4	-2.5
W5	-2.8
W8	-2.8
1	-2.1
2	-2.2
4	-2.5
5	-2.8
7	-2.3
8	-2.8
12	-3.0
13	-3.0
28	-3.0
66	-2.5



5、Environmental treatment

Environment handling of the original machine.

6.Engineering Draw



7.Measurement Report

深圳市孚邦无线技术有限公司

SHENZHEN FUBANG ANTENNA TECHNOLOGY CO., LTD

盐水喷雾试验报告

salt spray test report

报告编号:FUBQA220629086

日期:6月29日

产品名称 Product name	K6522Q4HX 下主天线	送检部门 Inspection department	研发	料号 Serial No	01.02.05.02.16522.002	试样数量 Qty		5
试验日期 Date	4月27日	试验时间 Test time	48H	开始START	4月27日10:00	客户Customer		
				结束OVER	4月29日10:00	供应商Supplier	/	
试验条件 Condition	项目 Item			标准 Standard		实测Actually measure		条件判定 Judge
						MAX	MIN	
	试验前产品清洗 Test before cleaning products			GB/T2423.17-2006		用清水清洗		OK
	产品放置方法 Location mode			GB/T2423.17-2006		15° ~30°		OK
	压缩空气动力 Compressed air power			(1.0±0.1)Kgf/cm		1.1	0.9	OK
	实验室温度 Laboratory temperature			35±1℃		36℃	34℃	OK
	实验室相对湿度 Test chamber relative humidity			85%RH		/		OK
	环境温度 Environment temperature			常温		/		OK
	压力桶温度 The pressure barrel temperature			47±1℃		48℃	46℃	OK
	盐水桶温度 Brine house temperature			35±2℃		37℃	33℃	OK
	盐水浓度 Brine density			1:20(5±1)%		5% NaCL溶液		OK
	盐雾沉降量 Spray volume			1~2ml/H/80cm²		1.7	1.4	OK
	NaCL品质 NaCL			工业盐		建新氯化钠		OK
	蒸馏水品质 Distilled water			饮用纯净水		纯净水		OK
其它 Other			/		/		OK	
试验结果 Experiment a result	白色腐蚀率			GB/T6461-02		无		OK
	样件试验后的外观			GB/T6461-02		/		OK
说明: 1.盐雾试验作业标准依照中华人民共和国国家标准GB/T2423.17-2006执行. 2.试件外观判定标准依照中华人民共和国国家标准GB/T6461-02标准执行. 3.判定方法:试样表面白色腐蚀率为0%为保护级别10级;白色腐蚀率为0~0.1% 为保护级别9级;白色腐蚀率为0.1%~0.25%为保护级别8级				Explain: 1.Salt fog experiments homework standard according to the People's Republic of China national standard GB/T2423.17-2006 performances. 2.Judge standard according to the People's Republic of China national standard GB/T6461-02 standard a performance. 3.Judge a method:Try the kind surface white corrosion rate as 0% for protect Class 10 classes;The white corrosion rate is 0~0.1% is protect Class 9 classes;The white corrosion rate is 0.1% ~ 0.25% is to protect Class 8 classes				
批准 Grant			审核 Examine			试验员Test clerk		
刘丽萍			刘丽萍			Wind		

FUB-4-PG-051/A.1

QC Engineering Chart

Customer(客户)		酷比	Written By(制作)		Orig. Date(制作日期)		2020.12.27		
Description(零件名称)		FPC天线	Revised By(校订)		Revised Date(校订日期)		2020.12.27		
		Approved By(确认)			Approved Date(确认日期)		2020.12.27		
流程编号 Process Number	流程名称 Process Name	制程描述 Process	产品 Product	控制项目 control item	检验方式 check mode	频率Freq	判定标准 Evaluation standard	担当 Inspector	记录 Record
1	IQC	来料检验 Incoming inspection	成品 finish goods	外观Appearance、颜色Color、材质Materials、版本Version	Batch inspection, RestrainingGB2828-2003 General II level, AQL: CR=0, MAJ=0.4, MIN=1.0Sampling	每批 Each Batch	目检Visual inspection、依据《FPC检验标准》Basis《FPC Inspection standard》《零件图纸》《Part drawing》	《FPC检验标准》《FPC Inspection standard》《零件图纸》《Part drawing》《材质证明》《Material Certification》	IQC Test Report
				盐水喷雾试验 Salt spray test	5PCS	每批 Each Batch	《可靠性试验标准》 Reliability test standard	《可靠性试验标准》 Reliability test standard	
				尺寸 Size	5PCS	每批 Each Batch	二次元进行量测 The quadratic element is measured	《零件图纸》《Part drawing》	
				RoHS符合性 RoHS Conformity	标识全检labeling full inspection	每批 Each Batch	每个包装是否贴有环保标识? 标识是否符合要求? Is there an environmental label on each package? Does the logo meet the	标识符合要求, 无漏贴Mark meets the requirements, no missing paste	
				包装材料 Packaging materials	Batch inspection, RestrainingGB2828-2003 General II level, AQL: CR=0, MAJ=0.4, MIN=1.0Sampling	每批 Each Batch	目检Visual inspection、依据《FPC检验标准》Basis《FPC Inspection standard》《零件图纸》《Part drawing》	《FPC检验标准》《FPC Inspection standard》《零件图纸》《Part drawing》《材质证明》《Material Certification》	
				外观Appearance、颜色Color、材质Materials、版本Version	每批 Each Batch	用直尺量测量相应尺寸/实装Use ruler to measure corresponding dimension/actual	《零件图纸》《Part drawing》		
				尺寸 Size	5PCS	每批 Each Batch	每个包装是否贴有环保标识? 标识是否符合要求? Is there an environmental label on each package? Does the logo meet the	标识符合要求, 无漏贴Mark meets the requirements, no missing paste	
				RoHS符合性 RoHS Conformity	标识全检labeling full inspection	每批 Each Batch	《FQC检验指导书》《FQC inspection instruction	《FPC检验标准》《FPC Inspection standard》	
				外观Appearance	全检full inspection	每批 Each Batch	Visual inspection、Basis《Specification for product packaging identification》&《BOM》	《Specification for product packaging identification》《BOM》	
				成品 finish goods	包装标识 Package label	全检full inspection	每批 Each Batch	Visual inspection、Basis《Specification for product packaging identification》	
2	FQC	外观检验 Outgoing inspection	成品 finish goods	外观Appearance	Batch inspection, RestrainingGB2828-2003 General II level, AQL: CR=0, MAJ=0.4, MIN=1.0Sampling	每批 Each Batch	二次元进行量测 The quadratic element is measured	OQC Test Report	
				重点尺寸 Important Size	5PCS	每批 Each Batch	每个包装是否贴有环保标识? 标识是否符合要求? Is there an environmental label on each package? Does the logo meet the requirements?		标识符合要求, 无漏贴Mark meets the requirements, no missing paste
				RoHS符合性 RoHS Conformity	标识全检labeling full inspection	每批 Each Batch	每个包装是否贴有环保标识? 标识是否符合要求? Is there an environmental label on each package? Does the logo meet the requirements?		标识符合要求, 无漏贴Mark meets the requirements, no missing paste
3	OQC	出货检验 Outgoing inspection	成品 finish goods	外观Appearance	Batch inspection, RestrainingGB2828-2003 General II level, AQL: CR=0, MAJ=0.4, MIN=1.0Sampling	每批 Each Batch	目检Visual inspection、依据《FPC检验标准》Basis《FPC Inspection standard》《零件图纸》《Part drawing》	OQC Test Report	
				重点尺寸 Important Size	5PCS	每批 Each Batch	每个包装是否贴有环保标识? 标识是否符合要求? Is there an environmental label on each package? Does the logo meet the requirements?		标识符合要求, 无漏贴Mark meets the requirements, no missing paste
				RoHS符合性 RoHS Conformity	标识全检labeling full inspection	每批 Each Batch	每个包装是否贴有环保标识? 标识是否符合要求? Is there an environmental label on each package? Does the logo meet the requirements?		标识符合要求, 无漏贴Mark meets the requirements, no missing paste

深圳市孚邦无线技术有限公司

SHENZHEN FUBANG Electronic TECHNOLOGY CO., LTD

镀金厚度检验报告

Gold thick test report

报告编号: FUBQA220629088

日期: 6月29日

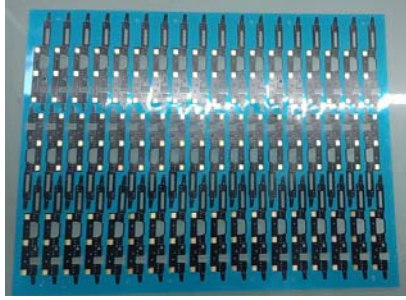
品 名 Product name	K6522Q4HX 下主天线				料 号 Serial No		01.02.05.02.16522.002			批 量 Batch		5PCS	
厚度标准	AU: 0.5uin, NI:50-150uin												
序 号 Number	测试结果 Test results												备注Remark
	CU um					NI um							
	1#	2#	3#	4#	5#	1#	2#	3#	4#	5#			
1	0.55	0.53	0.57	0.54	0.51	112.16	105.43	115.34	108.53	117.5			
	以下空白												
量具代号 Code	牛津仪器 Smartlink											最终判定	
备注 Remarks												OK	

FUB-4-PG-067/A.1

核准: 刘丽萍

审核: 刘丽萍

检验员: Wind



用 PE 膜打包
with PE film packaging



防潮防水 PET 袋封装
Moistureproof waterproof PET
bag packaging



放于纸箱内
Put in the cartons



纸箱用胶带封口
Carton sealing with duct tape



包装箱整箱外观
Cases appearance