



東莞市新盛電子有限公司

Dongguan City Xinsheng Electronics Co.,Ltd

样品承认书

客 户： 同维/共进
品 名： RF Antenna Assembly
规 格： 2.4GHz 5dBi 分体式 Antenna
新盛料号： SSR-0909014
客户料号： 800000000040L
版 本： X1

制作			客户承认		
制作人	核准	日期	判定：	审核	核准
			承认 <input type="checkbox"/>		
公司章			退回 <input type="checkbox"/>		
			公司章		

地址：東莞市大嶺山鎮大塘朗管理區六村

Address: 6Village, Datanglang District, Dalingshan, Dongguan, Guangdong, PRC

TEL: 886-769-85639708 85639728

FAX: 886-769-85652960



東莞市新盛電子有限公司

Dongguan City Xinsheng Electronics Co.,Ltd

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東莞市新盛電子有限公司

Dongguan City Xinsheng Electronics Co.,Ltd RF Antenna Assembly

Specification

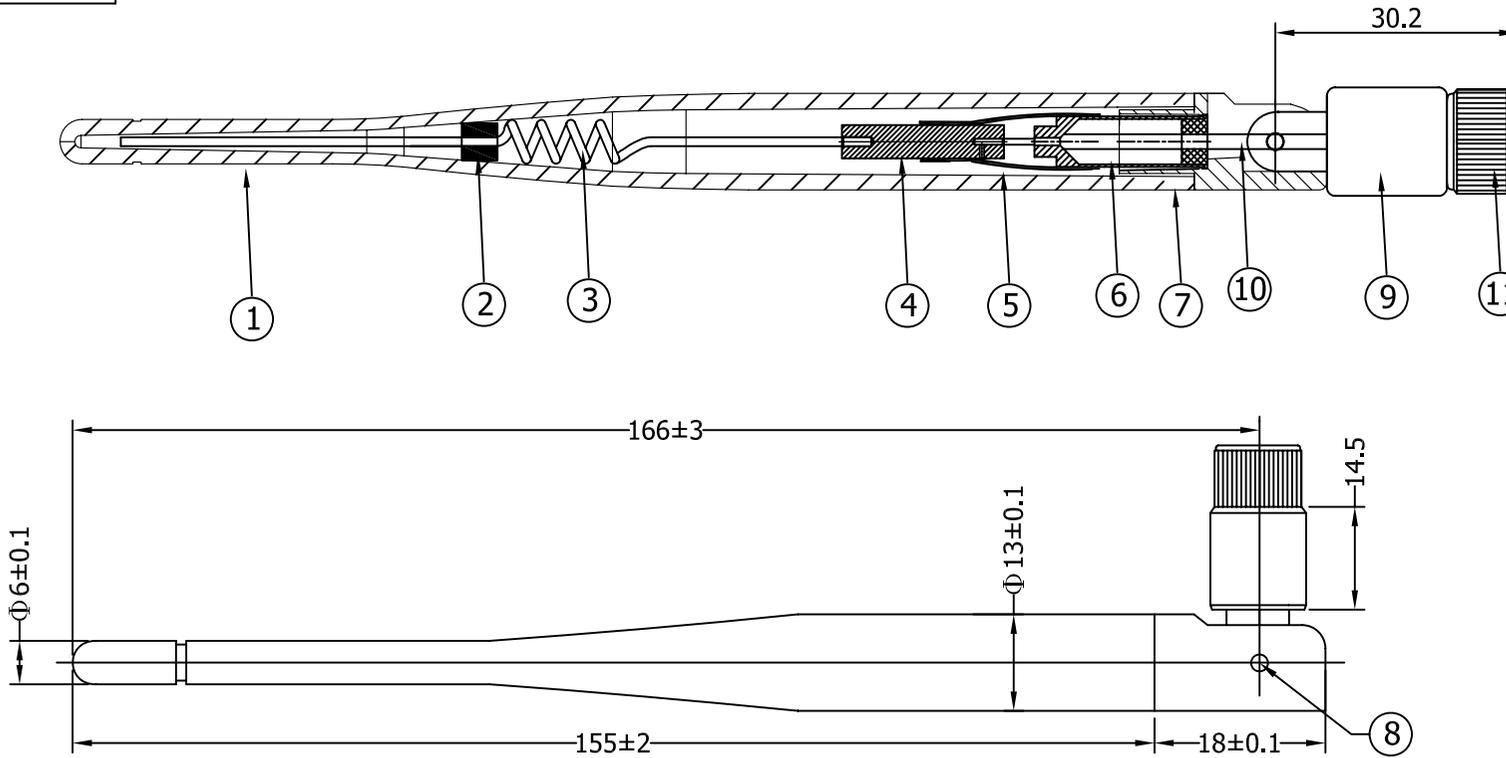
1. Electrical Properties :

1.1 Frequency Range.....	2.4GHz ~ 2.5GHz
1.2 Impedance	50Ω Nominal
1.3 VSWR	2.0 :1Max.
1.4 Return Loss.....	-9.6 dB Max.
1.5 Radiation	Omni-directional
1.6 Gain(peak).....	5dBi
1.7 Polarization.....	Linear; Vertical
1.8 Admitted Power.....	1W
1.9 Connector.....	SMA Plug

2. Physical Properties :

2.1 Antenna Body.....	TPE
2.2 Antenna Base.....	PC
2.3 Antenna Base.....	PBT
2.4 Operating Temp.	-10°C ~ +60°C
2.5 Storage Temp.	-10°C ~ +70°C
2.6 Color	White

REV	DATE	DESCRIPTION
X1	09/14-2009	New Issue

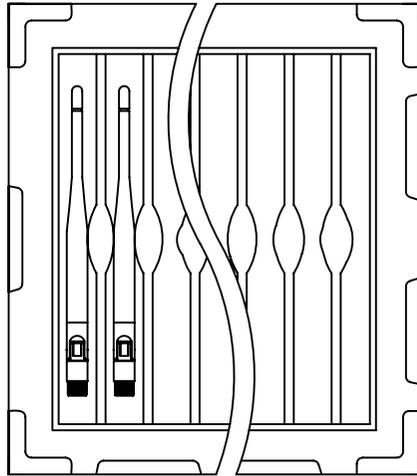


11	Connector	SMA Straight Plug Reverse	1	
10	Cable	RG-178 Cable,Gary,50Ω	1	
9	Antenna Base	PBT,Color:White	1	
8	Rivet	POM,Color:White	2	
7	Antenna Base	PC,Color:White	1	
6	Ground Tube	Brass Plating.Ni $\Phi 6.8 \times 23$ mm	1	
5	H.S Tube	Heat Shrink Tube $\Phi 7.9 \times 22$ mm	1	
4	Signal Tube	Brass Plating Tin $\Phi 4.5 \times 22$	1	
3	Helix	Brass $\Phi 5.0 \times 102$	1	
2	泡棉	$\Phi 6.0 \times (T) 5.0$ mm Black	1	
1	Antenna Body	TPE,Color:White	1	
NO	DESCRIPTION		QTY	REMARK

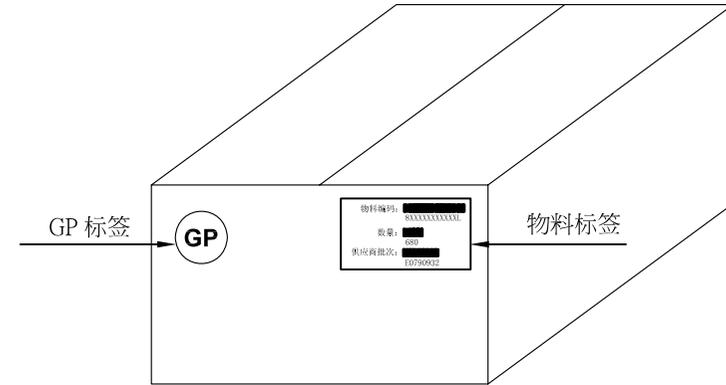
CUSTOMER'S SIGNATURE	XX.	±5	APPROVED	CUSTOMER: 同维/共进		
	X.	±3.0		PART NO : 800000000040L		
	.X	±1.0	CHECKED	PART NAME: RF Antenna Assembly		
	.XX	±0.5		X.S P/NO :		
	.XXX	±0.1	DRAWING	REV	UNIT	FILE : SSR-0909014
		X1		m/m	SHEET : 1/1	

**东莞新盛
电子有限公司**

REV	DATE	DESCRIPTION
X1	09/08-2009	New Issue



Packing: 20pcs/Tray 盤, 每Tray 盤需貼 1PCS GP 標籤.



680PCS/Carton

GP 標籤貼於外箱兩邊側麥左上角

物料標籤貼於外箱兩邊側麥右上角

CUSTOMER'S SIGNATURE

XX.	±5	APPROVED
X.	±3.0	
.X	±1.0	CHECKED
.XX	±0.5	
.XXX	±0.1	DRAWING

CUSTOMER: 同 维/共 进		
PART NO :		
PART NAME: RF Antenna Assembly		
X.S P/NO :		
REV	UNIT	FILE :
X1	m/m	SHEET : 1/1

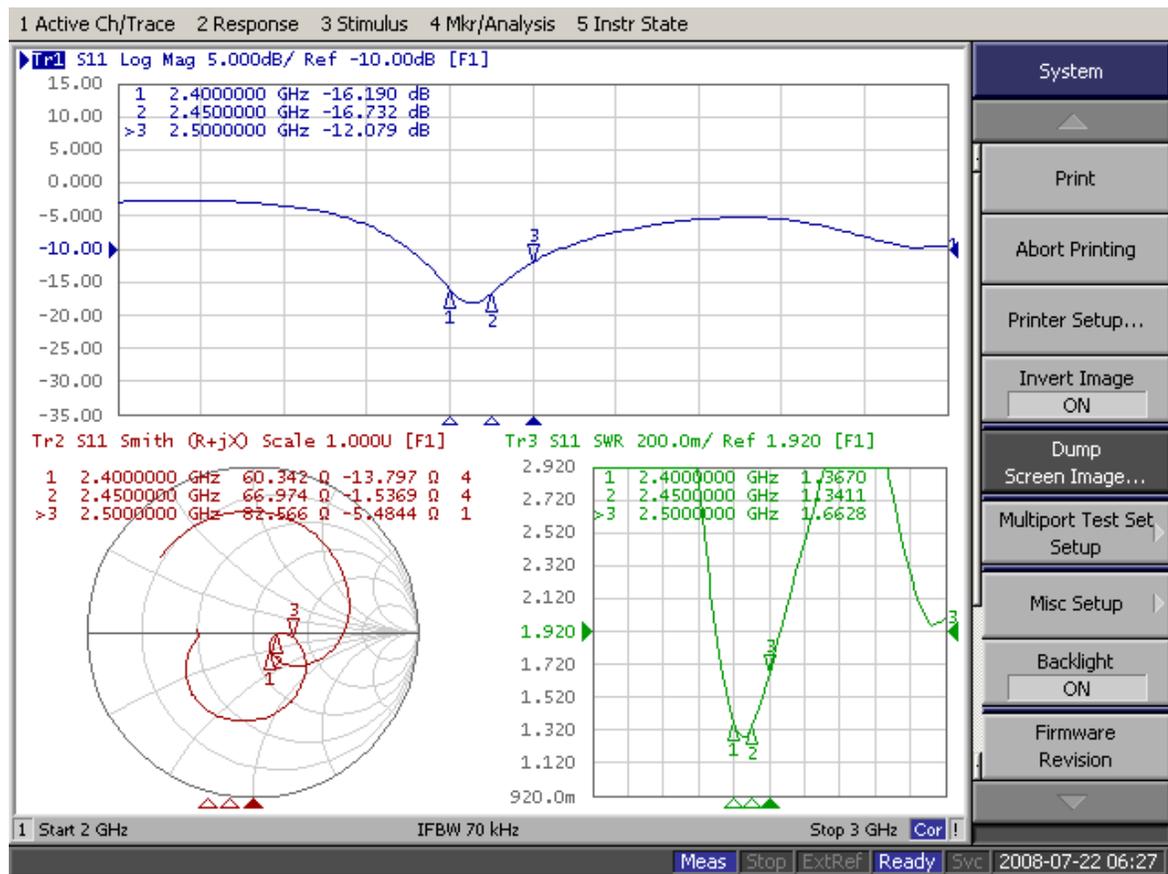
東莞新盛
電子有限公司



Dongguan City Xinsheng Electronics Co.,Ltd

S Parameter Test Date

Sample	Item	2.4Ghz	2.45Ghz	2.5Ghz
Sample 1	VSWR	1.3670	1.3411	1.6628
	R/L	-16.190	-16.732	-12.079
Sample 2	VSWR	1.4354	1.3087	1.6596
	R/L	-14.954	-17.476	-12.111
Sample 3	VSWR	1.4304	1.3378	1.506
	R/L	-15.038	-16.803	-13.074





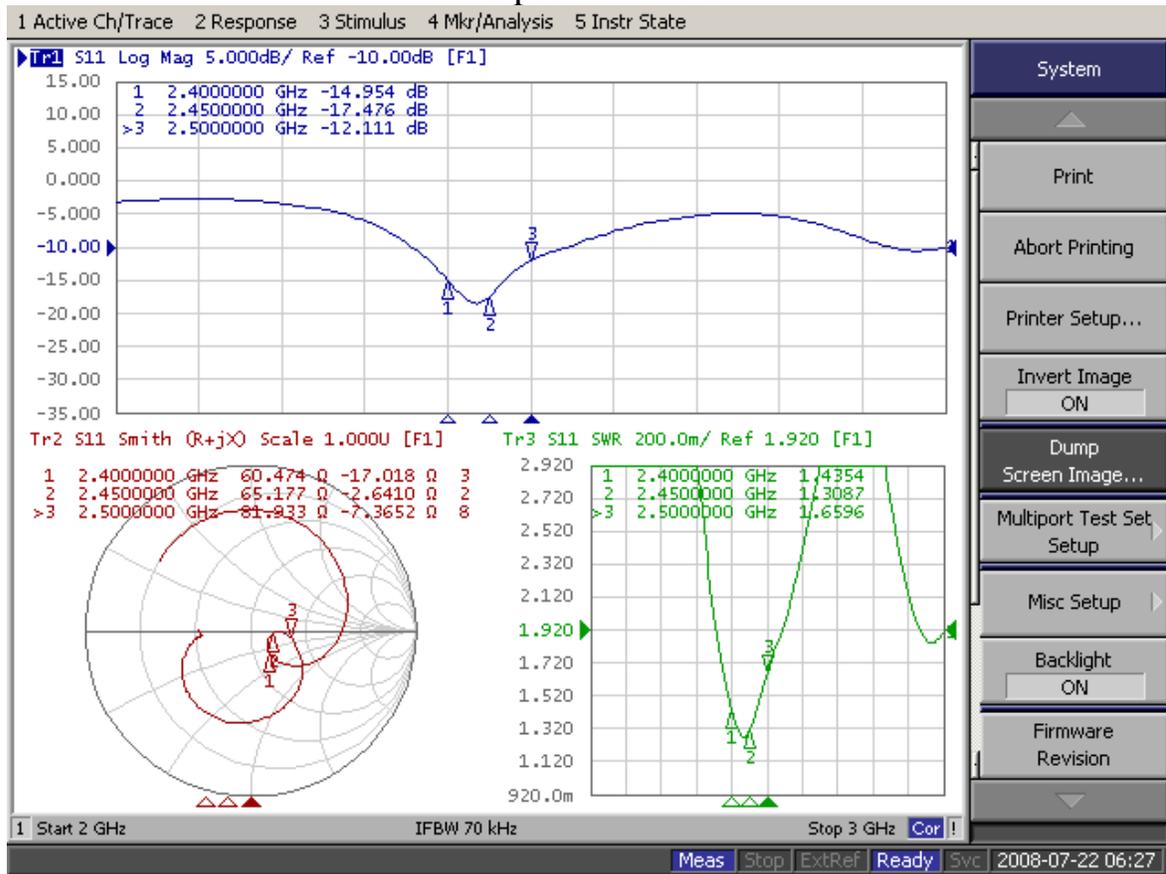
東莞市新盛電子有限公司

Dongguan City Xinsheng Electronics Co.,Ltd

S Parameter Test Date

RF Antenna Assembly

Spec2.4~:2.5GHz





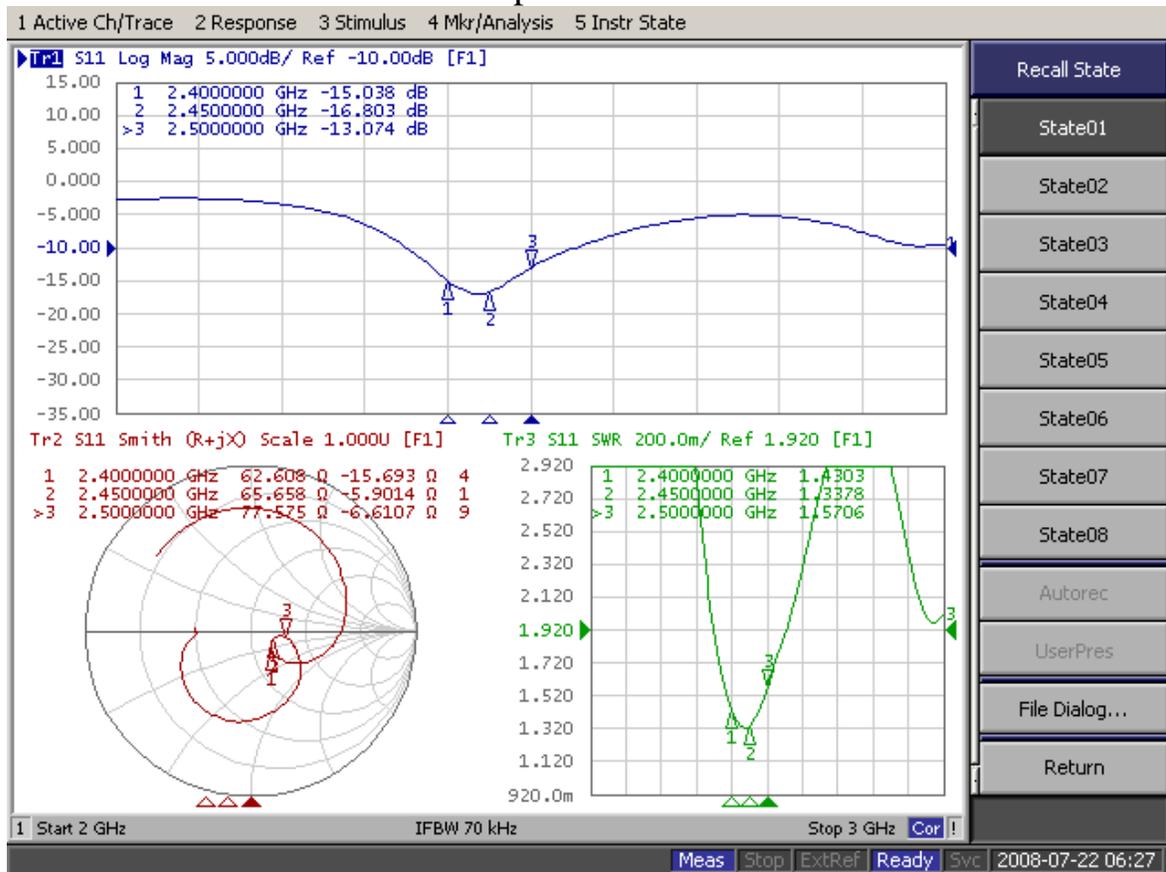
東莞市新盛電子有限公司

Dongguan City Xinsheng Electronics Co.,Ltd

S Parameter Test Date

RF Antenna Assembly

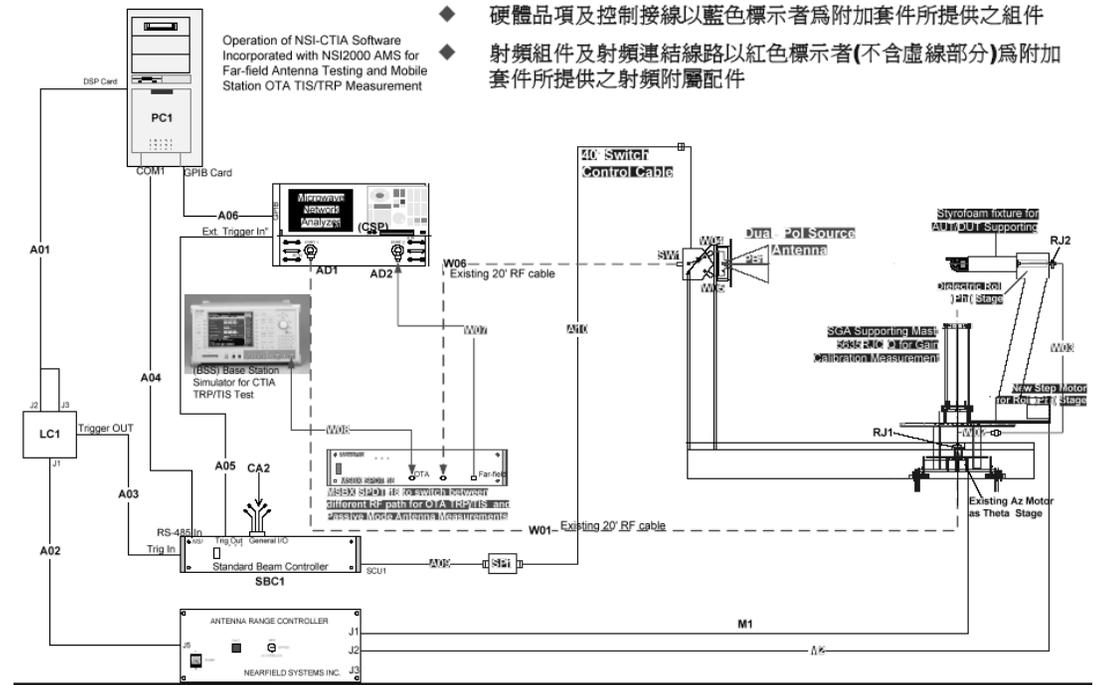
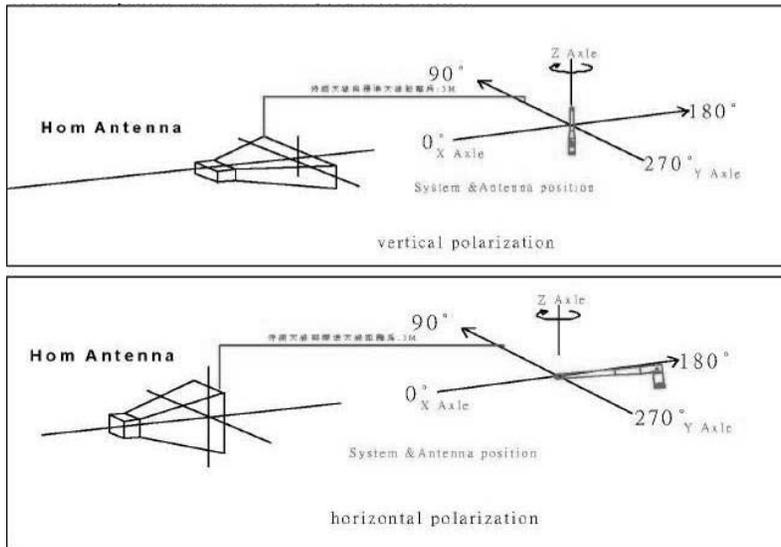
Spec2.4~:2.5GHz





東莞市新盛電子有限公司

The antenna efficiency and radiation pattern were measured using a NST-800F 3D anechoic chamber. The configuration of the chamber are shown below, The chamber coordinate system definition can be found. The placement of the tested fixture is shown below.



Configuration of NSI-800F 3D-chamber



東莞市新盛電子有限公司

天線增益測試報告

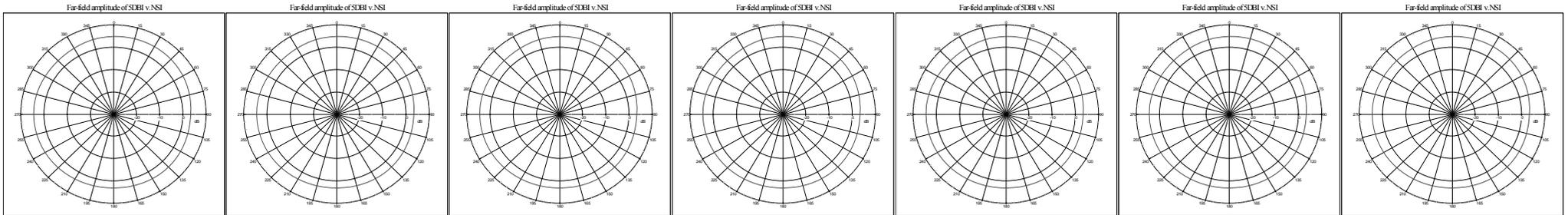
客戶：同維/共進

產品名稱：2.4G 5dBi RG-178 Cable

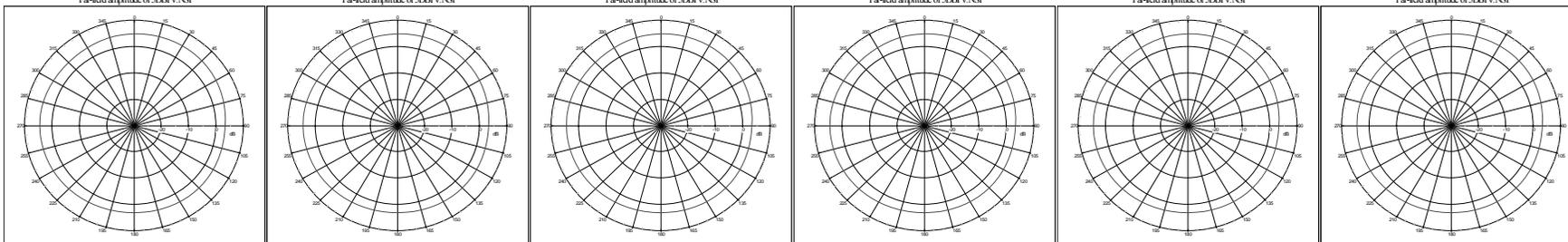
H-Plane/vertical polaztion

Freq.(MHz)	2390	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500	2510
Peak gain(dBi)	4.95	5.46	5.28	5.62	4.23	5.20	4.97	5.17	4.98	4.75	4.80	4.95	4.77
Peak degree	250	263	60	283	270	277	238	288	90	251	252	90	273
Avg gain(dBi)	3.90	4.34	4.66	4.40	3.57	4.27	3.99	4.22	4.09	3.99	388	4.11	3.92

2390 2400 2410 2420 2430 2440 2450



2460 2470 2480 2490 2500 2510





東莞市新盛電子有限公司

天線增益測試報告

客戶：同維/共進

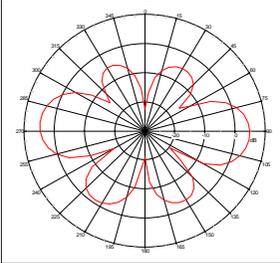
產品名稱：2.4G 5dBi RG-178 Cable

E-Plane/horizontal polaztion

Freq.(MHz)	2390	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500	2510
Peak gain(dBi)	4.83	5.01	5.42	5.12	5.19	4.98	4.75	4.90	4.81	4.73	4.76	4.76	4.89
Peak degree	90	89	260	272	85	92	80	83	272	85	91	90	95
Avg gain(dBi)	-3.31	-2.98	-2.95	-3.06	-3.12	-3.26	-3.38	-3.43	-3.55	-3.82	-3.95	-3.99	-4.34

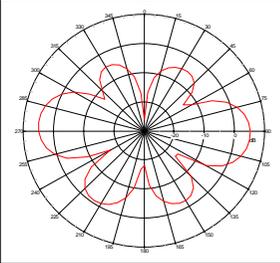
2390

Far-field amplitude of SDBI h.NSI



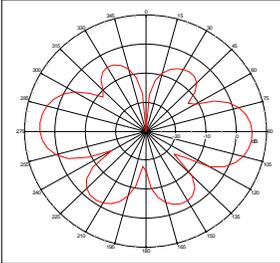
2400

Far-field amplitude of SDBI h.NSI



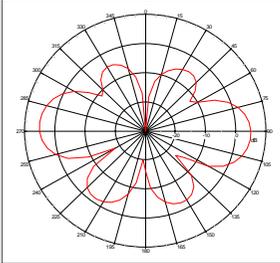
2410

Far-field amplitude of SDBI h.NSI



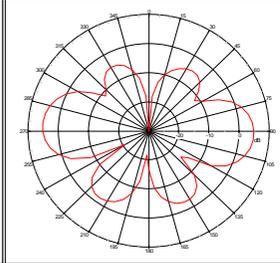
2420

Far-field amplitude of SDBI h.NSI



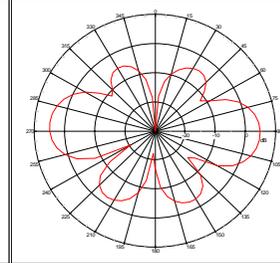
2430

Far-field amplitude of SDBI h.NSI



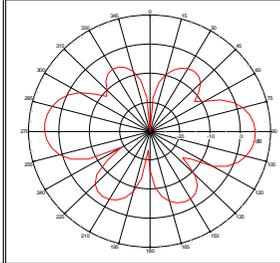
2440

Far-field amplitude of SDBI h.NSI



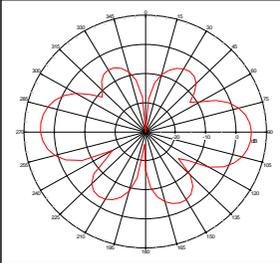
2450

Far-field amplitude of SDBI h.NSI



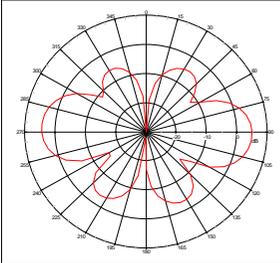
2460

Far-field amplitude of SDBI h.NSI



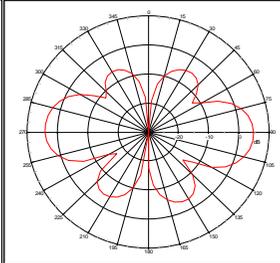
2470

Far-field amplitude of SDBI h.NSI



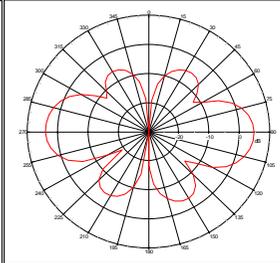
2480

Far-field amplitude of SDBI h.NSI



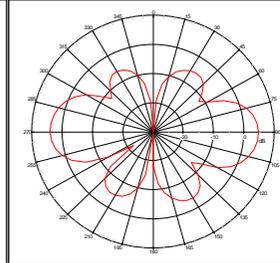
2490

Far-field amplitude of SDBI h.NSI



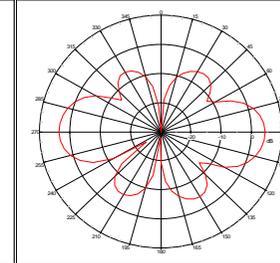
2500

Far-field amplitude of SDBI h.NSI



2510

Far-field amplitude of SDBI h.NSI





東莞市新盛電子有限公司

Dongguan City Xinsheng Electronics Co.,Ltd

Reliabilty Tseting

Customer:同维/共进

Part Name:RF Antenna Assembly

Specification:2.4GHz 5dBi 分体式Antenna

Part NO:800000000040L

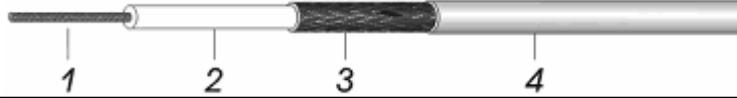
X. S P/N:SSR-0909014

Reliabilty Tseting

Test Item	Procedure	Requirement
1. Visual inspection and Dimension Check	Applicable n\methods using*5 magnification	follow specification
2. Rapid Changing of Temperature	-40°C (30 mintues) to 90°C (30 mintues); 48 cycles	After 2 Hours recovery: 1. no visible damage 2. Freq. Tol: $\pm 5\%$
3. Damp Heat	24hours at 60°C; 90~95% RH	After 2 Hours recovery: 1. no visible damage 2. Freq. Tol: $\pm 5\%$
4. Endurance	24hours at 90°C	After 2 Hours recovery: 1. no visible damage 2. Freq. Tol: $\pm 5\%$
5. Bend Testing	Bend Upper Base And Bottom Base $\pm 90^\circ$, 500Cycles	After 500 Cycles recovery: 1. no visible damage
6. Slat Atmosphere Testing	Slat Consistence: 5% 24hours at 30°C	After 2 Hours recovery: 1. no visible damage



RG178



型号 RG

178

结构 Structure

1	内导体 Inner conductor	StCu-silverplate
	Ømm	7×0.1±0.008
2	绝缘体 Dielectric	Solid FEP
	Ømm	0.86±0.08
3	编织层 Braid conductor	Cu-silverplated
	mm	1.35±0.07
4	护套 Jacket	FEP
	Ømm	1.8±0.08

电性能参数 Electrical Characteristics

电容 Capacitance(pF/m)	96.45
阻抗 Impedance(ohm)	50±2.0
速率 Velocity(%)	70
弯曲半径 Bending radius(mm)	10
最大工作电压 Max.oper.voltage(VMS)	1000
最大工作频率 Max.oper.frequency(MHz)	3000
工作温度范围 Operating Temp. (°C)	-55 to +150

衰减(典型值) Attenuation(Typical)(≧dB/m)

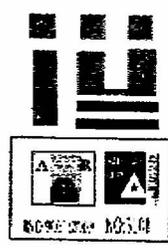
频率 Frequency	
1 GHz	1.70
2 GHz	2.42
3 GHz	3.08
4 GHz	3.63
5 GHz	4.15
6 GHz	4.80

应用 Application

应用于高频传输，特别是发报机、接收器、电脑、无线电设备、视频信号、射频信号传输。同轴电缆保证各式机械、热力、电子设备中能达到GHz高频层次的应用。

Coaxial cables are used in high frequency transmission, especially for transmitters and receivers, computers, radio and TV transmissions. The varied mechanical, thermal and electronic properties of Coaxial cables mean that they can be used up into the GHz levels, as per cable type.

P. 0204



SHIYANG (ZHONG SHAN) METAL PRODUCTS CO.,LTD

世扬金属制品有限公司

TEST CERTIFICATE

材质证明书



CLIENT 客户	海睿兴							certificate no. 证明书号	090413-06	
name article 品名	Brass									
LOT NO.	SIZE(MM) STANDARD	OUTWGT (KG)	DESIGNATION	Cu(%)	Pb(%)	Fe(%)	Fe+Sn(%)	Cd(%)	Zn(%)	REMARK
2520	10.75 φ	200	JISC3604	57~61	1.8~3.7	≤0.5	≤1.2	≤0.0075	REM	
			JISC3604	57.8	3.028	0.341	0.826	0.0017	REM	
兹证明本表所列产品,均依材料规格制造及试验,并符合规格之要求。 WE HEREBY CERTIFY THAT MATERIAL DESCRIBED HERE IN HAS BEEN MANUFACTURED AND TESTED WITH SATISFACTORY RESULTS IN ACCORDANCE WITH THE REQUIREMENT OF THE ABOVE MATERIAL SPECIFICATION.										

核准:  审核: 李玉奎
 THE THREE INDUSTRIAL AREA NAN LANG TOWN ZHONG SHAN CITY
 中国广东省中山市南朗镇第三工业区

日期: 2009/04/13
 TEL:0760-85214770 FAX:0760-85214769
 E-Mail:bs01@shiyangmetal.net

东莞市创强绝缘体有限公司材质证明

材料名称:铁氟龙(PTFE)

一、产品成份表

1、聚四氟乙烯(主要成99.95%)

2、其它辅助成分(0.05%)

二、物性指标

硫化前	硬度	比重	介电常数	压缩强度	伸长度	导热系数	耐热温度
外观	(A°)			(Mpa)	(%)	106E6W/(M°C)	°C
半透明乳白色	50~60	2.12~2.25	1.8~2.2	11.4~13.6	156~178	1.8~2.1	255+5

东莞市创强绝缘体有限公司



物料中有害物质含量调查表 表一

Questionnaire for Hazardous Substances(Table 1)

 物料名称: _____
 Product name: 2.4G 5dBi+ RG178 Cable+SMA Plug
 物料系列: _____
 Product serial: 天线

 原厂型号: _____
 Component Number: _____
 重量 (g): _____
 Weights (g): _____

序号 No.	构成物料的均质材质 Homogeneous Material Sub-parts	检测报告提供商 Supplier of Test Report	检测报告编号 Test Report No.	测试日期 Test Date	测试机构名称 Test By	有害物质测试结果 (mg/kg=ppm) Test Result(mg/kg=ppm) RoHS/电池指令/包装指令 RoHS/Battery Directive / Packaging directive						备注 Remark
						Pb	Cd	Hg	Cr(VI)	PBBs	PBDEs	
						1	RG-178	神宇	SHR0906113149300 6-1	2009.06.17	CTI	
2	TPE	凯旋	CANEC0801002803- A01	2008.09.18	SGS	ND	ND	ND	ND	ND	ND	
3	PC	帝人	CANEC0805494403 A01	2009.10.21	SGS	ND	ND	ND	ND	ND	ND	
4	PBT	凯旋	CANML0901279605	2009.03.25	SGS	ND	ND	ND	ND	ND	ND	
5	POM	宝理	JP/2009/051766	2009.01.09	SGS	ND	ND	ND	ND	ND	ND	
6	黄铜	海睿兴	CE/2008/C5723	2008-12-26	SGS	2500	21	ND	Negative			铜豁免
7	镀锡	和美	CANEC0900422906	2009.02.17	SGS	ND	ND	ND	Negative			
8	镀镍	海睿兴	CE/2008/C5720	2009.01.05	SGS	ND	ND	ND	ND			
9	热缩套管	沃尔	EC408691800	2008.10.17	SGS	2	ND	ND	ND	ND	ND	
10	镀金	海睿兴	CE/2008/C5721A	2009.01.05	SGS	ND	ND	ND	ND			

11	铁氟龙	嘉善伟业	GZ090317736/CHEM	2009.05.20	SGS	ND						

公司名称（盖章）：
Supplier name: _____

填表人：
Signature: _____

联系电话：
Contact: 0769-85639708

填表日期：
Date: 2009.09.08