

IA.0260.LB.3FI (WIFI/GPS)**Antenna Specification****1. Application:**

This application shall apply for antenna unit which shall be used such as automotive, conventional communications, smart home, etc..

1. Electrical Specification:

Those specifications were specially defined for customer's model, and all characteristics were measured under the model's handset testing jig .

2-1. Frequency Band:

Frequency Band	MHz
GPS/WIFI2.4/5.8G	1575.42/2400-2500/5150-5850

2-2. Impedance

50 ohm nominal

2-3. VSWR**2-3-1.Measurement frequency points and VSWR value**

Frequency Band(MHz)	1575.42	2400	2500	5150	5850
2-3-3. Typical Value:	1.5	1.6	1.2	1.5	1.6

2-3-2. VSWR

Frequency Band(MHz)	1575.42	2400	2500	5150	5850
2-3-3. Typical Value:	≤2	≤2	≤2	≤2	≤2

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=± **X.X=±** **X.XX=±**

ANGLES=± **HOLEDIA=±**



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SCALE :

UNIT : mm

DRAWN BY: LI

CHECKED BY: YS

DESIGNED BY: De wen

APPROVED BY: YS

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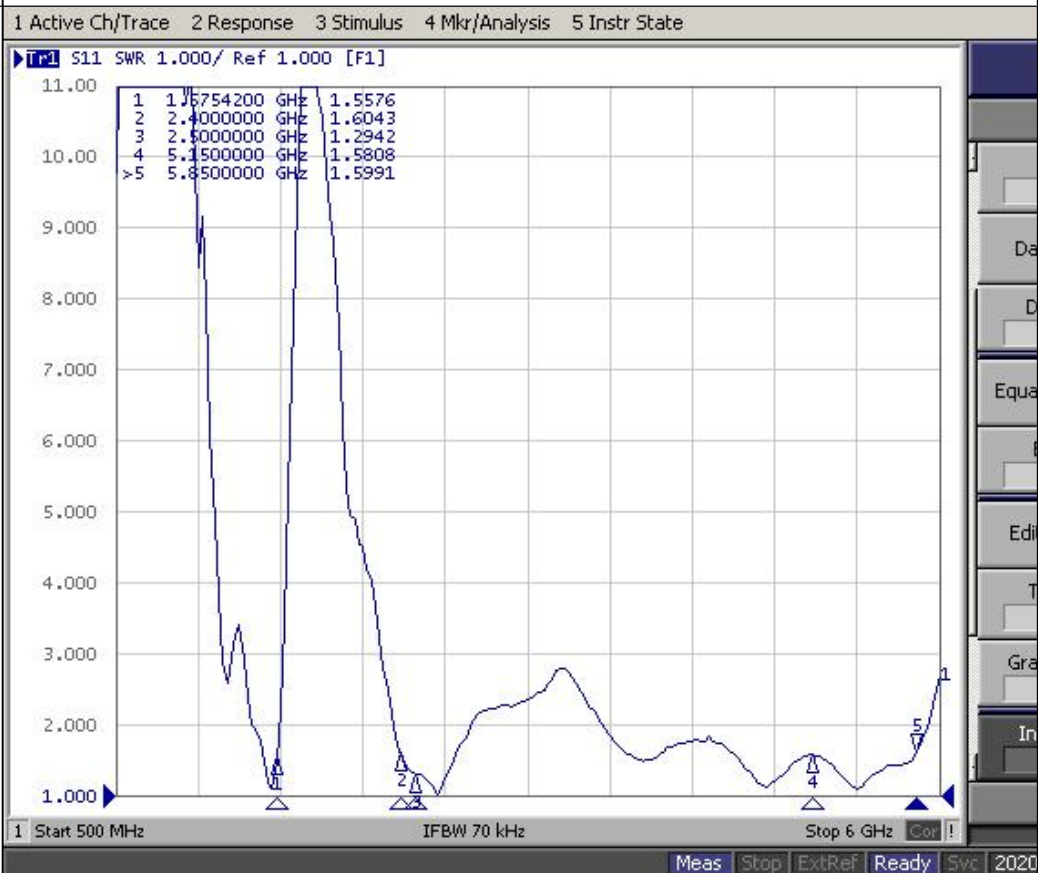
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2-3-4 Measuring Method

1. A 50 Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the VSWR.
2. Keeping this jig away from metal at least 20 cm

2-3-5 Picture



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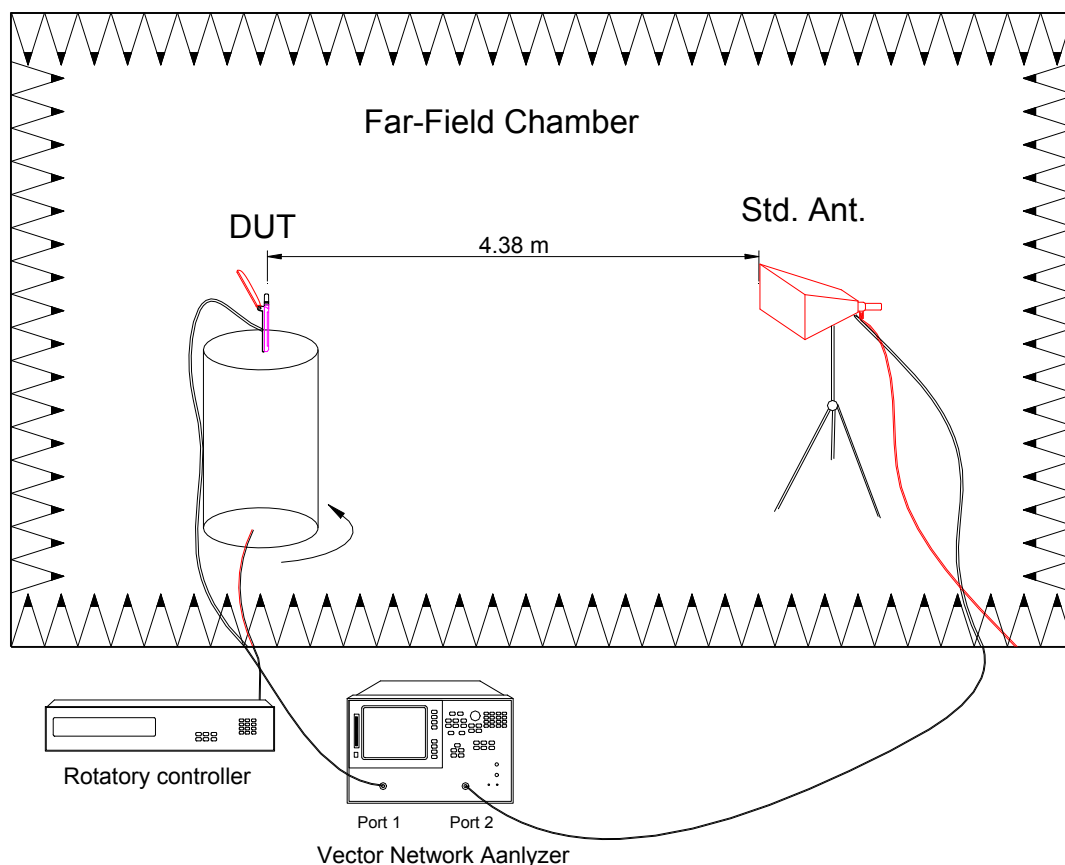
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2-4. Efficiency and Gain

4-5.1 Measure method

1. Using a low loss coaxial cable to link a standard handset jig
2. Fixed this handset jig on chamber's rotator plane
3. Linking jig into network analyzer port and using a probing horn antenna to collect data.
4. Using another standard gain horn antenna to calibrated those data

4-5.2 Chamber definition



1. An anechoic chamber (7mx4mx3m) which satisfied far-field condition was applied to avoid multi-path effect
2. The quite room region is 40cmx40cmx40cm at the center of rotator
3. The distance between DUT and standard antenna is 4.38 m
4. Probing antenna (9120D horn antenna) and standard gain horn antenna (BBHA9120 LPF 700MHz ~6GHz)

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2-4-1 Efficiency and Gain

BD

1559	65.85	-1.81	2.93
1560	65.45	-1.84	2.89
1561	62.9	-2.01	2.76
1562	60.23	-2.2	2.57
1563	57.8	-2.38	2.41

GPS

1573	58.22	-2.35	2.63
1574	60.11	-2.21	2.79
1575	61.66	-2.1	2.91
1576	62.64	-2.03	2.99
1577	62.94	-2.01	3.02

GLONASS

1600	56.2	-2.5	2.83
1601	54.5	-2.64	2.74
1602	52.49	-2.8	2.6
1603	50.37	-2.98	2.44
1604	48.32	-3.16	2.28

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	59.43	-2.26	2.35
2410	59.63	-2.25	2.22
2420	58.21	-2.35	2.16
2430	56.58	-2.47	1.8
2440	56.41	-2.49	1.84
2450	58.32	-2.34	1.98
2460	61.13	-2.14	1.83
2470	50.43	-2.97	0.99
2480	59.07	-2.29	1.76
2490	59.38	-2.26	1.86
2500	60.59	-2.18	2.07

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	40.89	-3.88	1.34
5200	41.77	-4.98	1.73
5250	47.45	-5.61	1.06
5300	46.08	-4.43	1.89
5350	43.23	-4.78	1.9
5400	44.13	-3.55	1.98
5450	55.68	-2.54	3.58
5500	40.9	-3.88	1.92
5550	42.58	-3.71	2.1
5600	41.18	-5.06	0.44
5650	47.33	-3.25	2.55
5700	45.86	-3.39	2.93
5750	43.76	-4.72	1.37
5800	47.47	-3.24	3.49
5850	46.09	-3.36	3.04

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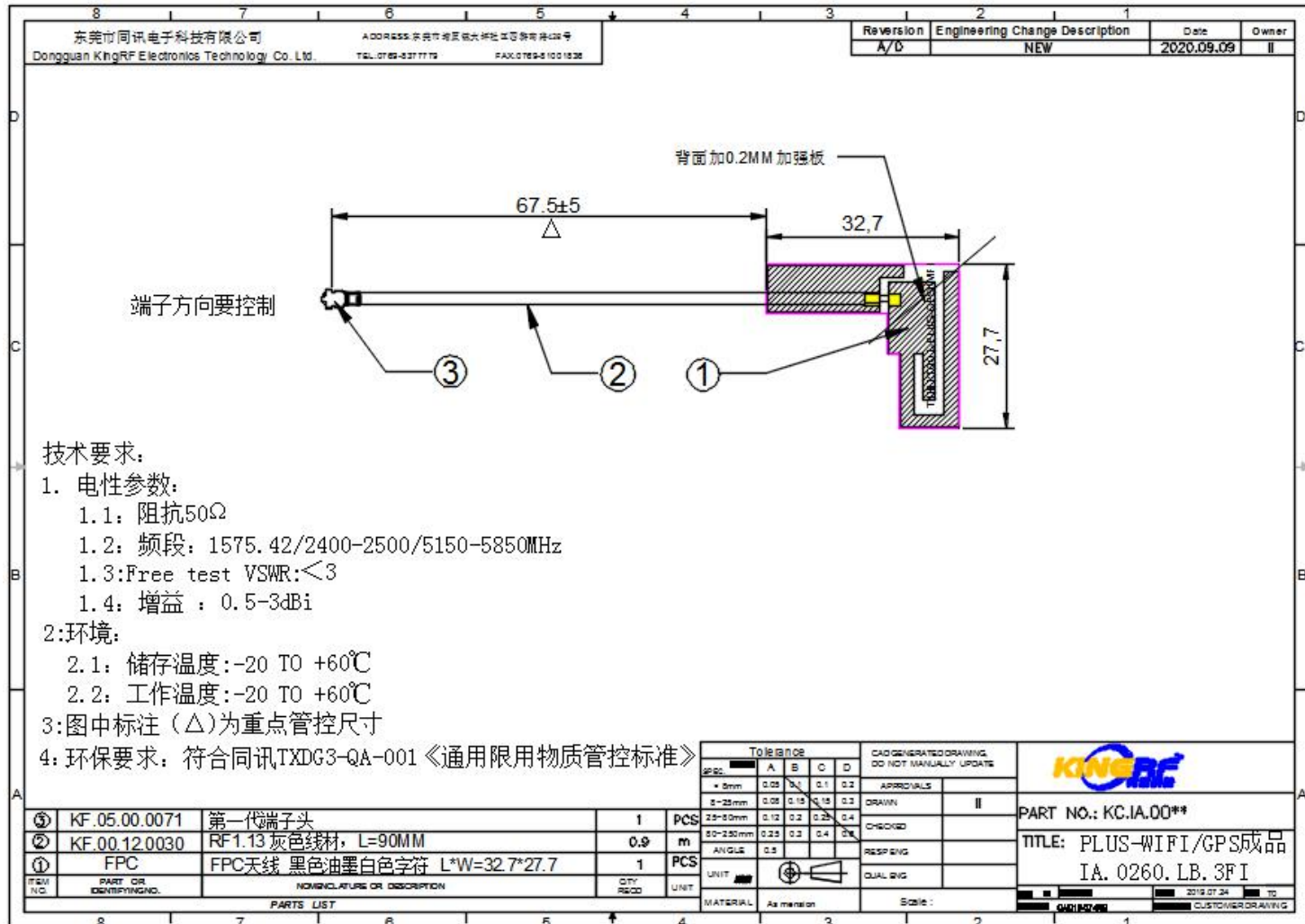
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3. Mechanical Specification:

3-1. Mechanical Configuration (Unit: mm)

The appearance of the antenna is according to drawing



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3-2. Connector appearance:

IPEX

3-3.Product Image:



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5.包装规格:

产品料号: **xxx**产品型号: **xxx**

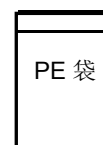
一、标签要求:

需方	xxx		
供方	xxxxx		
物料编码	xx		
产品型号	xx		
数量/单	xxx PCS	出厂日期	X 年 X 月 X 日
备注/其他			

二、装箱要求:

作业说明:

1. 内包装:

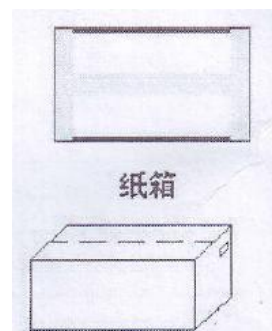
产品 **XXpcs** 一袋, 放入小 **PE** 袋;

2. 外包装:

XxPCS 一箱;

3. 注意事项:

- a. 是否要增设隔板、珍珠棉;
- b. 标签的帖附, 如 **ROHS** 等;



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