

TKSR6**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
WIFI/BT/GPS	2400-2500

2-2. Impedance

50 ohm nominal

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

	1575.42	2400	2500
Frequency Band(MHz)			
2-3-3. Typical Value:	1.78	1.47	1.24

2-3-2. VSWR

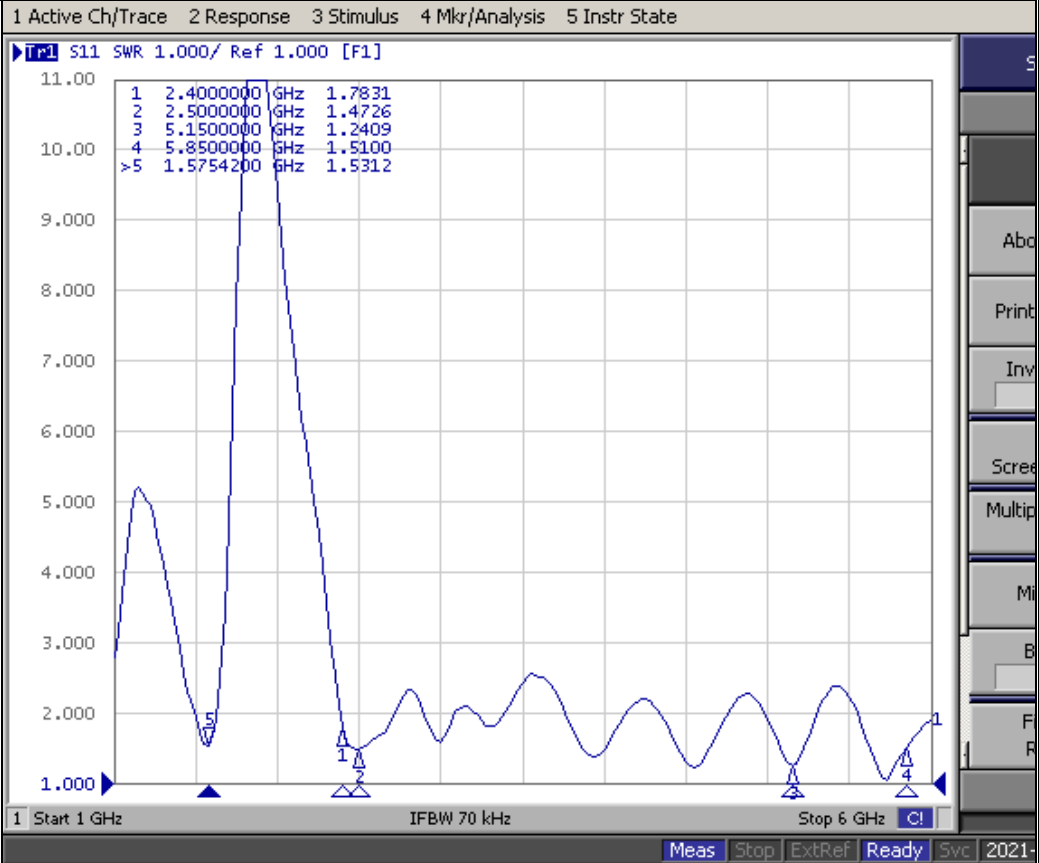
Frequency Band(MHz)	1575.42	2400	2500
2-3-3. Typical Value:	≤2	≤2	≤2

UNLESS OTHER SPECIFIED TOLERANCES ON :			
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ANGLES = ±	HOLEDIA = ±		
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2-3-4 Measuring Method

- 1. A 50Ωcoaxial 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



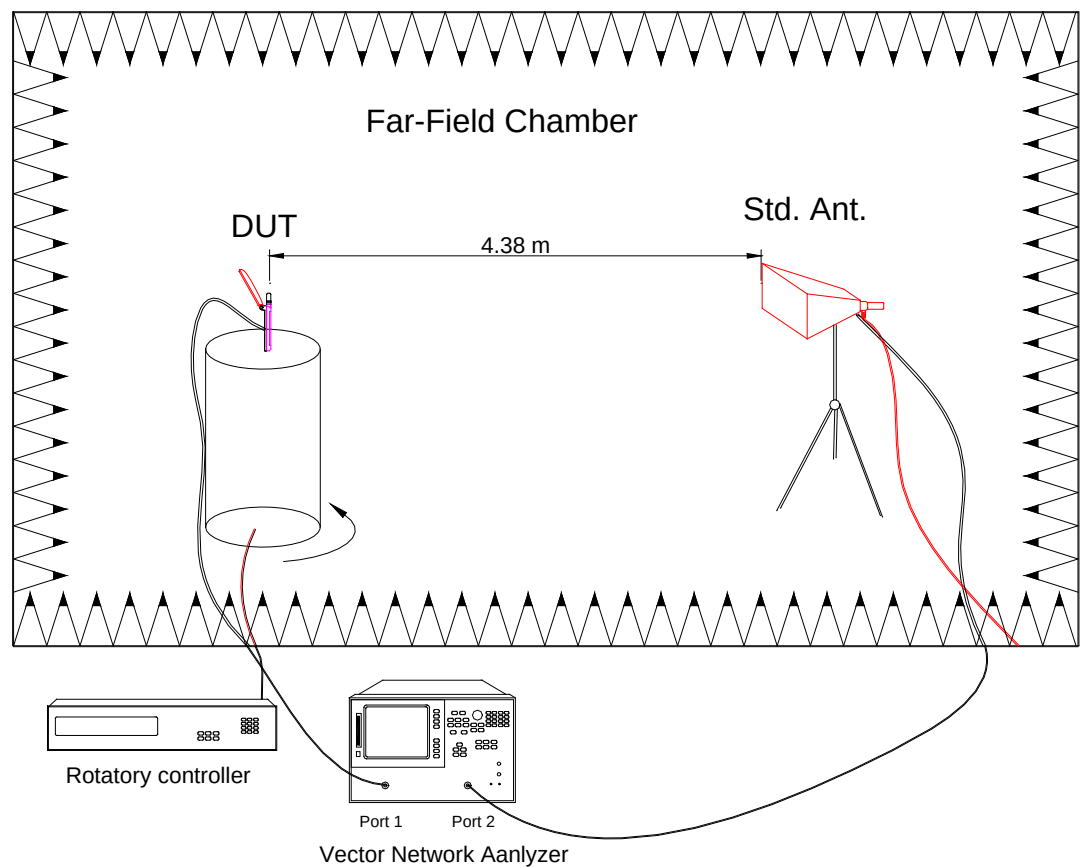
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2-4. Efficiency and Gain

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 quiet 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)

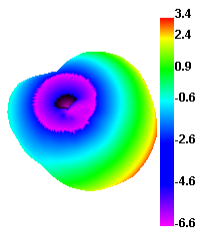
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Shenzhen KingRF Technology Co.,ltd
2-4-1 Efficiency and Gain

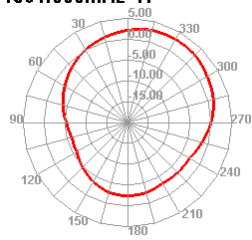
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
1573	59.04	-2.29	0.91
1574	59.38	-2.26	0.82
1575	60.05	-2.21	0.71
1576	60.96	-2.15	0.89
1577	62.03	-2.07	0.98
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	53.36	-2.73	0.89
2410	68.27	-1.66	0.98
2420	58.85	-2.3	0.89
2430	70.06	-1.55	0.88
2440	55.38	-2.57	0.97
2450	59.1	-2.28	0.95
2460	61.69	-2.1	0.96
2470	65.68	-1.83	0.98
2480	68.03	-1.65	1.00
2490	70.09	-1.54	0.89
2500	62.63	-2.03	0.88

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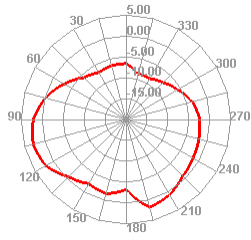
1561.000MHz



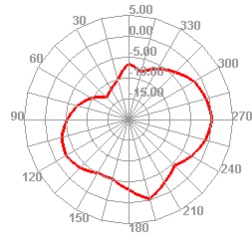
1561.000MHz H



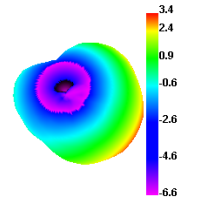
1561.000MHz E1



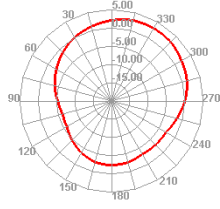
1561.000MHz E2



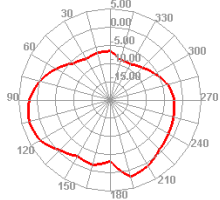
1561.000MHz



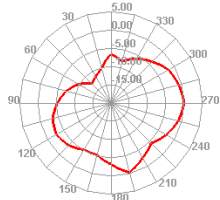
1561.000MHz H



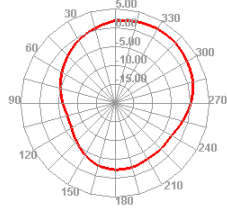
1561.000MHz E1



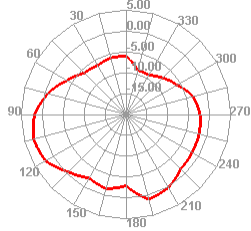
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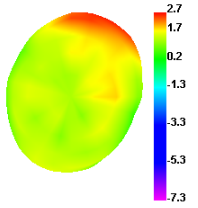
1575.000MHz H



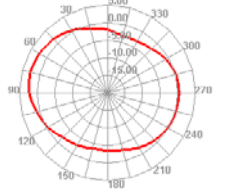
1575.000MHz E1



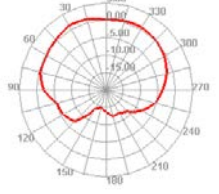
2400.000MHz



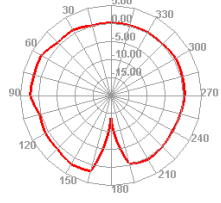
2400.000MHz H



2400.000MHz E1



2400.000MHz E2

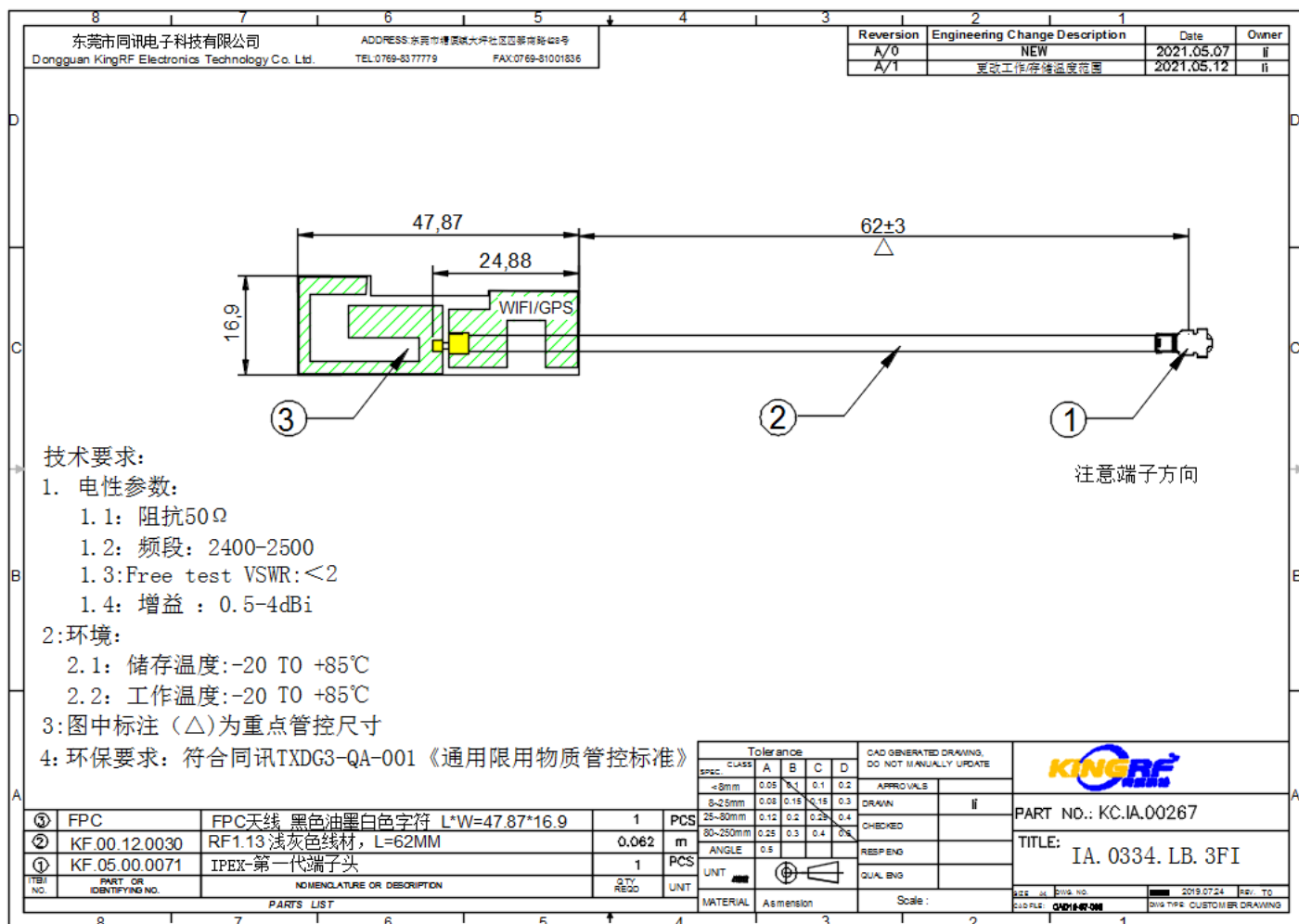


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3. Mechanical Specification:

3-1. Mechanical Configuration (Unit: mm)

The appearance of the antenna is according to drawing



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