# KC.IA.00467(DF51)

## **Antenna Specification**

#### 1. Application:

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

#### 2. 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	2400-2500MHz

#### 2-2. Impedance

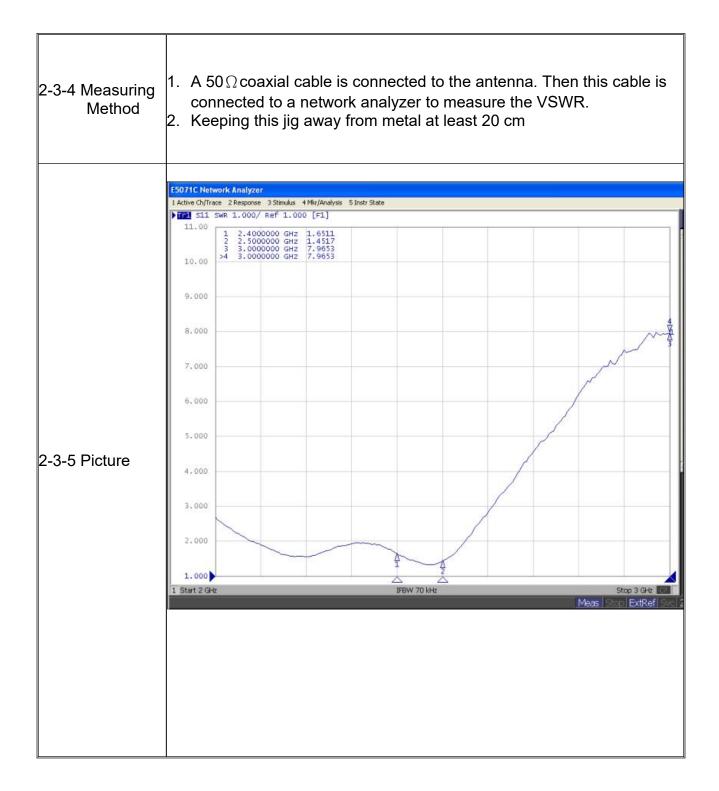
50 ohm nominal

#### 2-3. VSWR

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

Frequency Band(MHz)	2400	2500
Typical Value: (VSWR)	1.6	1.4

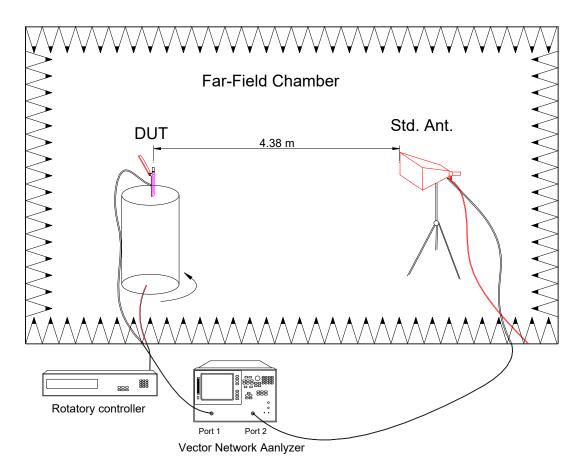
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		<b>PAGE</b> 2 <b>OF</b> 6			

- 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

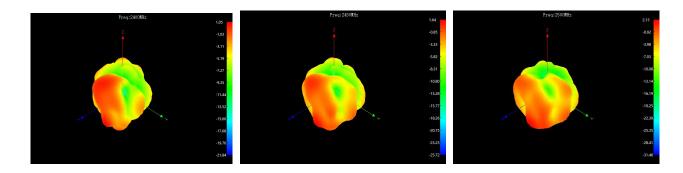


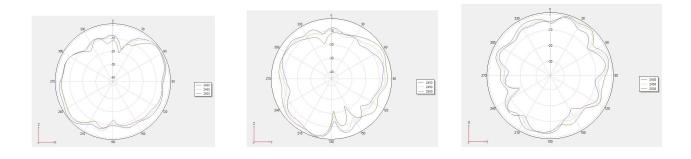
- 1. An anechoic chamber (7mx4mx3m) which satisfied far-field condition was applied to avoid multi-path effect
- 2. The quite room region is 40cmx40cmx40cm at the center of rotator
- 3. The distance between DUT and standard antenna is 4.38 m
- Probing antenna (9120D horn antenna) and standard gain horn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

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		P0	
		<b>PAGE</b> 3 <b>OF</b> 6	

# TOXU ◎祝秋木 TOXU TECHNOLOGY CO., LTD. 2-4-1 Efficiency and Gain and 3D Date

Frequency/MHz	MaxGain/dBi	Efficiency / %
2400	1.05	43.81
2410	1.73	46.39
2420	1.86	47.67
2430	1.95	45.97
2440	1.91	45.56
2450	1.64	44.51
2460	1.68	45.24
2470	1.72	45.08
2480	1.85	46.9
2490	2.18	47.02
2500	2.13	47.55





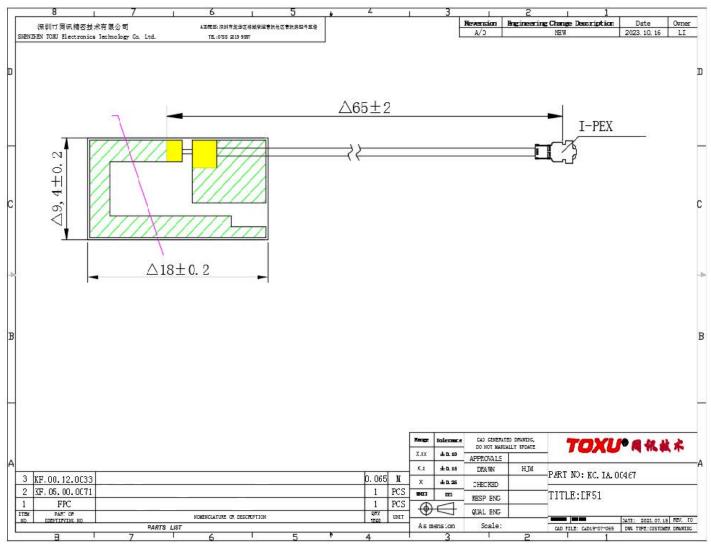
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			PAGE	4	OF	= 6

## 3. Mechanical Specification:

3-1. Mechanical Configuration (Unit: mm)

The appearance of the antenna is according to drawing

#### Antenna Type:FPCB Antenna



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		<b>PAGE</b> 1 <b>OF</b> 6

### 4 .Packaging specification:

<ul> <li>Label requirement</li> <li>Customer</li> <li>supplier</li> <li>Material coding</li> <li>Product model</li> <li>Number</li> <li>Remarks</li> </ul>	ents: xxx xxxxx xx xx xx XXX PCS	Factory date	X X X	
supplier Material coding Product model Number	xxxxx xx xx	Factory date	X X X	
Material coding Product model Number	xx xx	Factory date	X X X	
Product model Number	xx	Factory date	XXX	
Number		Factory date	XXX	-
	XXX PCS	Factory date	XXX	
Remarks				_
Job description: 1. Inner packaging: XXpcs A bag			PE 袋	
<ol> <li>2. External packagin</li> <li>Xx PCS ;</li> <li>3. Matters needing a</li> </ol>	-			
a. Whether to add	-	-	纸箱	
SS OTHER SPECIFIED TOLER	X.XX=±		TOXU TECHNOLOGY CC	
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